

# 2026 XR SHOWROOM Directory



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CHAPTER

1



# Korea VR AR Complex (KoVAC)

1. KoVAC Overview
2. KoVAC Services

# KoVAC Overview

## 01 Korea VR AR Complex (KoVAC)



The Korea VR AR Complex (KoVAC) is a complex space established by the National IT Industry Promotion Agency (NIPA) to foster the growth of Korean companies specializing in immersive content and strengthen their international competitiveness. It supports the entire cycle necessary for industrial development, from content development to commercialization, through education, office space, infrastructure, and business support.

**Location** 396 World Cup buk-ro, Mapo-gu, Seoul  
Nuritkum Square

**Business Inquiries** ☎ +82-2-2132-1213



Go to KoVAC Blog

## 02 Key Services

### Tenancy Support XR Support Center

#### R&D Tower

Fostering internationally competitive ICT companies by supporting corporate office spaces at each stage of growth



### Production Support Co-production Center

#### Co-production Center, Digital Pavilion (4F)

Promoting the production of immersive content linked to various industries by supporting production infrastructure and technology

- **Production Support Infrastructure**  
K-Support for content discovery and test production through K-Immersive Studio and LED XR Stage
- **Post-production Support**  
Providing top-tier equipment and technology tailored to specific production characteristics for effective digital content creation  
Production support spaces, including VR editing rooms, color correction rooms, special effects production studios, general editing rooms, recording studios, and related facilities
- **Equipment Support**  
360° RIGs, 12K wide-view cameras, stereoscopic video and high-definition shooting support equipment, 5G real-time broadcasting equipment, etc.

### Training Support Metaverse Campus

#### Digital Pavilion (3F)

Training field-oriented specialized developers linked to demonstration infrastructure, such as metaverse hubs.



### Business Support XR SHOWROOM

#### Digital Pavilion (1F and 2F)

Permanent exhibition space for corporate business support and raising awareness of the XR industry

- **Business Support**  
Establishing an environment for business creation through strategy formulation and corporate capacity building programs
- **Experience Program**  
Expanding awareness of the XR industry by providing opportunities to experience immersive content



# KoVAC Services

## 01 XR Support Center

The XR Enterprise Growth Support Center provides office spaces at various stages of growth, ranging from promising early-stage startups to specialized firms, to revitalize the ICT sector, including XR, AI, and SW.

\* Free use of shared meeting rooms exclusively for center tenants



### Support Details

Type	Eligibility	Supported Space	Monthly Rent (VAT not included)	Monthly Management Fee (VAT not included)	Support Period (Maximum)	Remarks
Early-stage Companies (Type A)	Companies Less Than 3 Years Old (Private Businesses and Corporations)	50m <sup>2</sup> or Less Area of Exclusive Use	Free	KRW 9,370/m <sup>2</sup>	8 Years	· Office furniture, internet, shared multifunction printer, etc.
Early-stage Companies (Type B)	Companies Less Than 7 Years Old (Private Businesses and Corporations)	70m <sup>2</sup> or Less Area of Exclusive Use				· Shared meeting rooms
Small Giants (Type C)	Corporations	125m <sup>2</sup> or Less Area of Exclusive Use				
Specialized Companies (Type D)	Corporations	204.5m <sup>2</sup> or Less Area of Exclusive Use 250m <sup>2</sup> or Less Area of Exclusive Use Over 250m <sup>2</sup> Area of Exclusive Use				· Shared meeting rooms

\* If the unit prices for building (Nuritkum Square) management fees and rent change, the changes will be applied.

### How to Apply

- NIPA Website – Program announcements, rolling application

### Support Details

- XR, AI, SW, etc. (ICT-related SMEs)
  - Businesses that can prove they are SW-related companies, such as those with “Software Consulting, Development, and Supply” specified in the business category/type on their business registration certificate.
  - Large enterprises falling under Article 3 of the Framework Act on Small and Medium Enterprises and middle-sized enterprises falling under Article 2 of the Special Act on the Promotion of Growth and the Strengthening of Competitiveness of Middle-Standing Enterprises are ineligible for support.

### Key Benefits

- 50% discount on usage fees for immersive content production infrastructure equipment (limited to equipment that can be taken outside)
- 50% discount on usage fees for International Conference Rooms and medium/small conference rooms within Nuritkum Square
- Support for networking and business programs among resident companies

## 02 Metaverse Campus | [metaverse-campus.kr](https://metaverse-campus.kr)

Metaverse Campus fosters customized professional talent equipped with immersive content production technology and creative capabilities.



**03 Co-production Center** | [kovacstudio.com](http://kovacstudio.com)



The Co-production Center supports advanced production infrastructure based on XR and the Metaverse to secure sustainable growth engines for domestic small and medium-sized enterprises (SMEs) specializing in immersive content.

By providing shared production equipment, it improves productivity, reduces costs, and drives synergies in the production of immersive content. Through this, it alleviates the burden of producing high-quality immersive content for SMEs and supports the continuous supply of content to the market and its early establishment.

**Support for Immersive Content Production Infrastructure**

Support for production infrastructure incorporating advanced technology

**Support for K-Immersive Studio Content Utilization**

Support for VR and AR content production of human and object movements

**Support for Multi-stream Broadcasting**

Support for 5 G-based multi-stream broadcasting systems

**Major support facilities and equipment**



**K-Immersive Studio**

State-of-the-art immersive content production studio utilizing optical motion trackers, gloves, and face capture



**XR Stage**

An LED-based real-time XR and virtual convergence content production facility capable of utilizing graphic engines and realistic backgrounds



Production of virtual space, such as film, drama, and advertising

Virtual production for car scenes

Technology Workshops & Production Tech Sharing

**04 XR SHOWROOM** | [blog.naver.com/with\\_kovac](http://blog.naver.com/with_kovac)

The XR SHOWROOM, featuring a permanent exhibition of outstanding Korean immersive content, operates customized experience programs for different visitor types to support business activities such as inter-company technology exchange and business matching, as well as to raise awareness of the XR industry.



**Exhibition Overview**

Composed primarily of outstanding achievements from projects supported by the National IT Industry Promotion Agency (NIPA) and excellent content selected through public recruitment

**Business Support**

- Customized support programs, including strategy formulation and technical assistance based on corporate analysis
- Mentoring regarding technology rights analysis, domestic and international technology patents, and certification acquisition
- Support for investment attraction and global market expansion, including IR mentoring
- Production of product/service promotional materials and marketing support
- Hosting of business networking events



**Experience Programs**

- Demonstrations and hands-on experiences of immersive content applied across various fields
- Operation of tour programs tailored to specific visitor purposes, such as business, investment, and benchmarking
- Participation in the educational donation program 'Dream Path': Targeting elementary, middle, and high school students
- Cumulative number of visitors from 2019 to 2025: 7,287





CHAPTER



## **XR SHOWROOM**

1. About XR SHOWROOM
2. Business Support
3. Experience Program

## About XR SHOWROOM

### XR SHOWROOM: Exhibition Hall for Outstanding Korean Immersive Content



This space is designed to enhance understanding of the immersive content industry and support the businesses of related companies, featuring an exhibition of outstanding achievements from research institutions and companies in XR and virtual convergence. Visitors can view the current status of the Korean immersive content industry, which has converged with various sectors such as manufacturing, industry, education and training, security, nuclear fusion, and media.

## Business Support

Establishing a business creation environment through specialized support tailored to the needs and requirements of resident companies

#### Customized Support Program

Establishing customized strategies through analysis of target markets and similar companies  
 Support for acquiring domestic and international patents and certifications, rights analysis, and mentoring  
 Strengthening corporate capabilities through IR deck production and support, and investment attraction consulting

#### Support for Domestic and International Market Entry

Establishing market entry strategies tailored to the company's characteristics  
 Marketing support, including the production of promotional materials for products and services in Korea and the UK, and media relations  
 Arranging meetings to foster collaboration and networking among companies

#### Performance Analysis

Suggesting future business support and policy directions based on analysis of current performance



## Experience Program

Operating customized experience programs tailored to visitors' purposes, such as corporate business, investment, benchmarking, and education.

<b>Eligibility</b>	<ul style="list-style-type: none"> <li>Companies in the ICT industry, investors, the general public, and students</li> <li>Local governments, public institutions, and domestic/international partners</li> </ul>
<b>Hours</b>	10:00-16:30 (Closed on Saturdays, Sundays, and public holidays)
<b>Fees</b>	Admission: Free Parking: First 30 minutes free / ₩500 per additional 10 minutes
<b>Visitor Guide</b>	<ul style="list-style-type: none"> <li>Apply via Naver Reservation</li> <li>Search for "Korea VR AR Complex, KoVAC" on Naver Maps</li> <li>On-site Registration (1F)</li> </ul>
<b>Information</b>	Domestic Inquiries ☎ +82-2-2132-1179 Overseas Inquiries ☎ +82-2-2132-1178



Direct link to Exhibition Hall Reservation

※ Visitors who register on-site may enjoy free viewing only, without content experiences.

CHAPTER



# XR SHOWROOM Exhibition Content and Companies

XR SHOWROOM Exhibition Content

1. Education & Training
2. Manufacturing & Industry
3. Media
4. Korean-Made Device
5. Security
6. Nuclear Fusion



# XR SHOWROOM Exhibition Content

## Exhibition of 19 Outstanding Outcomes from NIPA Support Projects

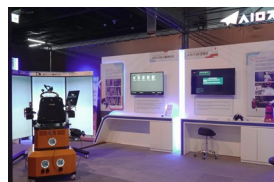
### Education & Training



**Company Name** BIG PICTURES **CEO** Jong-min Kim  
**Main Number** +82-70-4209-4773 **Homepage** big-pictures.co.kr  
**Contents Overview**  
 [VR CMS] Construction Machinery Practical Training Solution



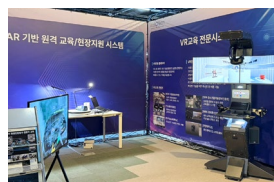
**Company Name** SIGONGtech **CEO** Seung-tae Kim  
**Main Number** +82-2-3438-0077 **Homepage** sigongtech.co.kr  
**Contents Overview**  
 Immersive Training Content for Natural and Social Disaster Preparedness Drills



**Company Name** SimG **CEO** Jae-wook Jeong  
**Main Number** +82-52-221-3001 **Homepage** SimgXR.com  
**Contents Overview**  
 VR Training Simulators and VR Tours (Excavator & Fire Extinguisher Training, Museum Tour)



**Company Name** Yonsei University Industry Foundation **CEO** Jong-il Hong  
**Main Number** +82-2-2123-6901 **Homepage** research.yonsei.ac.kr  
**Contents Overview**  
 Fire Initial Response Training System for Fire Safety Managers



**Company Name** WABOTECH **CEO** So-hyeong Kim  
**Main Number** +82-2-6954-1321 **Homepage** wabotech.com  
**Contents Overview**  
 XR-Based Automotive Maintenance Training and Support Platform



**Company Name** PlayCurio **CEO** Sang-jun Lee  
**Main Number** +82-2-6205-9250 **Homepage** play-curio.com  
**Contents Overview**  
 [Curio AR Play] Immersive EdTech for Children

### Manufacturing & Industry



**Company Name** Cyeongnam Technopark **CEO** Jeong-hwan Kim  
**Main Number** +82-1688-3360 **Homepage** gntp.or.kr  
**Contents Overview**  
 Aviation Industry Cluster Collaboration Platform



**Company Name** Narainformation **CEO** Yeong-ho Sohn  
**Main Number** +82-2-3141-7644 **Homepage** narainformation.com  
**Contents Overview**  
 AI-Integrated Metaverse-Based Maintenance Operations Platform for High-Speed Rail Vehicles



**Company Name** Lemonsoft **CEO** Chun-geun Lee  
**Main Number** +82-62-383-6010 **Homepage** lemonsoft.co.kr  
**Contents Overview**  
 Integrated Energy Management Metaverse Platform



**Company Name** SIMSREALITY **CEO** Myeong-hwan Kim  
**Main Number** +82-42-934-1801 **Homepage** simsreality.com  
**Contents Overview**  
 [META K-PORT] Intelligent Logistics Management Platform



**Company Name** Chungnam Institute **CEO** Hui-gyeong Jeon  
**Main Number** +82-41-840-1114 **Homepage** cni.re.kr  
**Contents Overview**  
 Integrated Manufacturing Site Operations Service for Virtual Convergence Industrial Complexes



**Company Name** Korea Automotive Technology Institute **CEO** Jong-wook Jin  
**Main Number** +82-41-450-0060 **Homepage** katech.re.kr  
**Contents Overview**  
 Eco-Friendly Ship Demonstration and Training Service

✓ Media



**Company Name** BIBIMBLE      **CEO** Mi-ran Yoo  
**Main Number** +82-2-6441-3876      **Homepage** bibimble.com  
**Contents Overview**  
 [AIDIX] Intelligent Digital Human Service

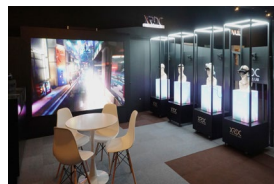


**Company Name** Sharebox      **CEO** Yeon-sik Shin  
**Main Number** +82-2-2132-8340      **Homepage** ssharebox.com  
**Contents Overview**  
 [SHAREBOX] Interaction XR Media Experience



**Company Name** ArtygenSpace      **CEO** Yeong-seon Seo  
**Main Number** +82-70-4159-7236      **Homepage** artygenspace.com  
**Contents Overview**  
 Interactive Ocean Media Wall

✓ Korean-Made Device



**Company Name** Gumi Electronics & Information Technology Research Institute  
 (eXtended Reality Device development support Center)  
**CEO** Jang-ho Kim      **Main Number** +82-54-460-9050  
 (Jeong-sik Gu)  
**Homepage** xrdclab.kr  
**Contents Overview**  
 Korean XR Device Experience and Rental Service



**Company Name** P&C Solution      **CEO** Chi-won Choi  
**Main Number** +82-2-528-6000      **Homepage** pncsolution.co.kr  
**Contents Overview**  
 [Metalense] Korean XR Devices for Industrial Convergence

✓ Security



**Company Name** Jininfra      **CEO** Seong-yong Kim  
**Main Number** +82-2-330-3900      **Homepage** jininfra.com  
**Contents Overview**  
 [AROUND] Urban Safety Monitoring and Crisis Response Simulation

✓ Nuclear Fusion



**Company Name** Trittech      **CEO** Jae-seok Ki  
**Main Number** +82-2-6958-7599      **Homepage** tritech.co.kr  
**Contents Overview**  
 Digital Twin-Based Fusion Energy Facility Operations  
 Fire Ladder Truck Operation Training Content

## 1

# Education & Training

## Construction

### [VR CMS] Construction Machinery Practical Training Solution

Big PICTURES

## Disaster

### Immersive Training Content for Natural and Social Disaster Preparedness Drills

SIGONGtech

## Construction

### VR Training Simulators and VR Tours (Excavator & Fire Extinguisher Training, Museum Tour)

SimG

## Fire Safety

### Fire Initial Response Training System for Fire Safety Managers

Yonsei University Industry Foundation, National Fire Assessment Institute, SIMNET, UTEC, Hanbitsoft, Hoseo University Industry-Academic Cooperation Foundation

## Maintenance

### XR-Based Automotive Maintenance Training and Support Platform

WABOTECH

## Training

### [Curio AR Play] Immersive EdTech for Children

PlayCurio



## [VR CMS] Construction Machinery Practical Training Solution

### BIG PICTURES

#### ✓ Content Overview

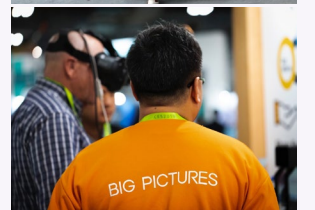
- This solution provides a safe and cost-effective environment for practical training in construction machinery, unrestricted by physical space or time.
- It provides practical training courses aligned with the National Competency Standard (NCS), enabling users to learn to operate construction machinery from various brands and models using a single simulator. This lessens the difficulty of securing practice space or the burden of equipment costs, and analyzes data to systematically manage practice and effectively enhance the trainee's skills.

#### ✓ Applied Technologies

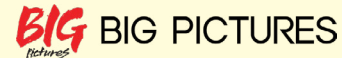
- **Time-Physics-based Simulation VR Visualization Technology**
  - High immersion in the virtual environment through realistic construction machinery movements and a haptic UI optimized for VR.
  - Provides a systematic curriculum based on NCS learning modules.
- **Real-time network control data integration technology**
  - Manages the network, curriculum, and systems for up to 15 users in real time.
  - Recorded operational information provides intuitive feedback through 3D graphics.
- **Presenting standards for practical training through learning management and analytics**
  - Applies practical skill evaluations from the construction machinery operator qualification exam to objectively assess trainees' job competencies.
  - Quickly evaluates individual and group progress by creating and grouping trainee profiles and collecting and managing training progress.

#### ✓ Business Direction

- Expand B to B business into a vocational technical training solution for heavy equipment training institutions by expanding the curriculum that applies construction equipment attachment and level system necessary in actual work.
- Expand the B2C business into a personal training solution by breaking free from hardware limitations on the metaverse platform.
- Expand into a short-term vocational training solution for migrant workers (upgrading long-staying visas by acquiring construction licenses).



# BIG PICTURES



**Address** #410 and #411, 151 Gyejok-ro, Dong-gu, Daejeon  
(Business and Employment Agency of Daejeon)  
**CEO** Jong-min Kim  
**E-mail** cms@big-pictures.co.kr  
**Industry** Information and Communications

**Main Number** +82-70-4209-4773  
**Homepage** www.big-pictures.co.kr  
**Business** Construction Machinery Virtual Practice Solution

## Company Overview

### Enterprise Vision

Big Pictures is driving digital innovation in vocational skill training by developing a system that allows for repetitive practice in various situations while reducing operating costs, using a digital construction machinery operation training system to enhance educational effectiveness and contribute to the prevention of safety accidents, and to “contribute to enabling anyone to easily and quickly acquire operational capabilities” through digital spatial technology and software.

### Business Area

We provide safe, eco-friendly training solutions to more trainees through digital innovation in construction machinery practical training. We produce and distribute simulators that implement physical interactions in virtual environments, as well as 38 different heterogeneous construction machinery simulations. We are increasing the efficiency of digital training by developing training programs optimized for virtual practice.

## Core Technologies

### Simulation

- Real-time implementation of physics-based construction machinery dynamics simulation

### Learning Management

- Management of location-based multi-network engagement content (location-based entertainment) and learner behavior experience data analysis system (CM Matrix)

### Core Functions

- Systematically enhances job skills through operating construction machinery in a virtual space, repetitive mastery, and learning management
- The virtual training solution economically increases educational effectiveness by eliminating the constraints of time and space
- The metaverse platform generates a sustainable revenue structure by using data from providing real-time simultaneous training to multiple trainees

## History

- December 2025** • Family-Friendly Company Certification
- August** • Supplied VR simulators to the Philippine Occupational Health and Safety Center (OHSC)
- November 2024** • Participated in the 17th Army M&S International Conference
- October** • Signed MOU for virtual training and content supply contract with Raon Meta, signed MOU for virtual training commercialization with Eduall-Lab and DriveTech, operated K-Girls Day with the Ministry of Trade, Industry and Energy and the Korea Institute for Advancement of Technology (KIAT)
- September** • Signed MOU with Ho Chi Minh City University of Transport for HOPEE VN and GTVT virtual training business, selected as an excellent company for fair recruitment by the Korea Human Resources Development Service
- July** • Signed industry-academia cooperation MOU with Pohang Women's Electronic High School
- June** • Registered as a leading company for learning-centered field training, Glocal College 30 MOU with Daejeon Health College
- January** • Selected as an excellent IPP and family company for Pai Chai University
- December 2023** • Signed MOU for virtual training business with Vietnam's GTS VN and TQA Solution
- November** • Signed MOU for virtual training technology with Singapore's True World Studio, MOU for the establishment of a virtual training center at Hanoi National University of Education, Vietnam
- November** • Participated in the 16th Army M&S International Conference
- October** • Operated K-Girls Day with the Ministry of Trade, Industry and Energy and the Korea Institute for Advancement of Technology (KIAT)
- April** • Registered product on Venture Nara VR CMS
- March** • Signed MOU for fostering future talent with Mapo Youth Culture Center
- February** • Jointly established Namseoul University VR Simulation Center and signed MOU



# Immersive Training Content for Natural and Social Disaster Preparedness Drills

## SIGONGtech

### Content Overview

- The immersive content for natural and social complex disaster prevention training was created using the latest physical simulation technology to enable interaction through various activities, serving as a disaster safety prevention experience designed to prevent unexpected complex disaster situations.
- We enhanced immersion by realistically reflecting user movements through integration with cyber shoes. We designed the content to help users acquire various skills through realistic disasterprevention experiences aimed at preventing unexpected, complex disaster situations. For this, we developed an effective integration between the physical simulation and the user interface.

### Applied Technologies

- The immersive content for natural and social complex disaster prevention training provides realistic interaction by fusing physical simulation technology with cyber shoes. The fusion of real and virtual reality significantly enhances user immersion, offering a more diverse experience through unexpected content and various interactions.
  - Minimizes dizziness by applying cyber shoes that enable infinite movement within the virtual space
  - Provides an experience identical to reality, even in the virtual space, by applying physical environmental variables
  - Implements multi-person virtual reality content in a wireless environment without a backpack PC via Wi-Fi 6 streaming VR

### Business Direction

- **B2G Business** : Domestic and international safety experience centers, exhibition halls, multi-cultural spaces, etc.
  - Scheduled to promote commercialization at existing safety experience centers
- **B2C Business** : Planned commercialization of story-based experience theme parks
  - Scheduled to sell devices through social media and Steam VR promotion

# SIGONGtech



**Address** 225-20 Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do  
**CEO** Seung-tae Kim  
**E-mail** yangsj@sigongtech.co.kr  
**Industry** Advertisement, promotion, and exhibition

**Main Number** +82-2-3438-0077  
**Homepage** www.sigongtech.co.kr  
**Business** Immersive Content, Art & Technology, Simulator, Interactive Media, Science Hall, Experience Hall

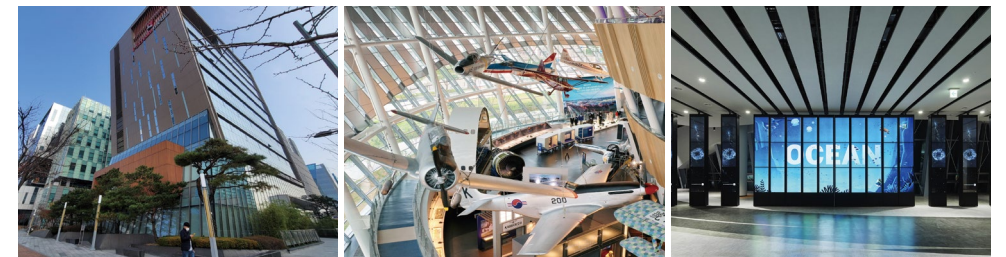
### Company Overview

#### A Global Creative Group Leading Immersive Content and Art & Tech

- SIGONGtech specializes in exhibition, culture, and immersive content. Since its founding in 1988, it has continued to grow, creating the title of “Korea’s first” to this day.
- Especially, as the content industry becomes increasingly important, SIGONGtech is developing a range of immersive technologies and content.

### Core Technologies

- SIGONGtech, Korea’s largest and best company specializing in immersive content, Art & Technology, exhibitions, culture, and interior design, has a “Cultural Technology Research Institute” staffed with expert personnel.
- Holds over 240 intellectual property rights and professional qualifications.



### History

- Hosted Korea’s first large-scale multimedia show, BIG-O SHOW
- Won the contract for Korea’s largest exhibition project, the Comprehensive Vocational Experience Center (Job World)
- Korea’s first comprehensive exhibition and cultural enterprise to expand overseas (China, Kazakhstan, Saudi Arabia, Malaysia, etc.)
- 1998 Korea’s first maritime HD 3D video recording (Lisbon Expo)
- 1996 Developed Korea’s first sealed display case
- 1990 Established Korea’s first ‘Omnibus’ (Dome Theater) at the National Science Museum
- 1988 Hosted Korea’s first laser show

## VR Education Simulator and VR Tour (Excavator & Fire Extinguisher Training, Museum Tour)

SimG

### Content Overview

- ▶ **Excavator VR Simulator:** This product enables heavy equipment operation training in a safe environment, using a simulator identical to a real excavator. It is configured to enable practical training by incorporating not only license exam practice content but also actual field work content.
- ▶ **Fire Extinguisher VR Content:** Integrating actual fire extinguisher hardware with VR content provides a highly immersive educational environment. This enables users to accurately learn how to use fire extinguishers and apply them correctly in real fire situations.
- ▶ **Museum Tour VR Content:** It allows recreating non-existent exhibits or museums in a VR space. It offers an active, engaging viewing experience through features such as touchable exhibits and related mini-games.

### Applied Technologies

- ▶ MR technology that enhances training effectiveness by integrating VR content and hardware (Realistic graphic quality based on 3D modeling)
- ▶ Implementation of effective MMI reflecting user convenience (Holds 2 patents)
- ▶ Wireless connectivity technology between VR content input devices and integrated HMDs
- ▶ Application of a physical engine including gradual acceleration, braking, and vehicle tilting during turning situations

### Business Direction

- **Excavator VR Simulator**
  - Sales focused on specialized educational institutions such as agricultural and vocational high schools, as well as military units
  - Content additions and upgrades are conducted annually
- **Fire Extinguisher VR Content**
  - Demand formed primarily from fire stations and fire suppression training institutions (especially early childhood and elementary education)
  - Content additions and upgrades planned
- **Museum Tour VR Content**
  - The target audience is set centered on institutions, associations, and the culture and tourism sectors
  - Individual upgrades conducted through customer customization

SimG



**Address** #102, 54 Yulliyonghae 1-gil, Cheongnyang-eup,  
Ulju-gun, Ulsan  
**CEO** Jae-wook Jung  
**E-mail** simg@simglab.com

**Main Number** +82-52-221-3001  
**Homepage** www.SimgXR.com  
**Industry** Software Development  
**Business** XR Content Development

### Company Overview

#### Sharing Joy through XR Technology

- SimG Co., Ltd. is a virtual reality content development company established in 2013. It strives to promote growth and development through innovation by applying XR technology across industries such as construction, manufacturing, education, healthcare, and culture/tourism, improving working environments, enhancing quality, and reducing costs.

### Core Technologies

- Planning and production of industry-based XR content
- MR technology that enhances training effectiveness by linking VR content with hardware
- Hardware manufacturing technology that maximizes educational effectiveness by integrating with VR
- Continuous upgrades through an in-house research institute and direct production facilities
- Digital-Twin technology that enables realistic training by combining VR and AI technologies
- Implementation of effective MR reflecting realistic graphic quality and user convenience



### History

- 2024
  - Signed MOU with Argentina
  - Participated in Tokyo XR Fair
  - Presented a demonstration at a Japanese Vocational Training School
  - Participated in Export Boom-Up Korea
  - Korea-Latin America Business Summit
  - Participated in GPPM Public Procurement Export Consultation Meeting

- 2024
  - Signed MOUs with Thailand, Japan, and Singapore
  - Developed export-type excavator hardware models
  - Participated in the Tokyo XR Fair
  - Produced VR/AR content for KENTECH
  - Secured additional orders from Volvo (~2025)
  - Produced and delivered AR ship troubleshooting content for Hyundai Heavy Industries
  - Won the KES 2024 Innovation Award
- 2023
  - Exported heavy equipment simulators to Indonesia for the first time
  - Established Seoul Branch
  - Developed and delivered forklift VR driving training equipment to Pohang Polytechnic University
  - Produced the Volvo Korea Metaverse Showroom (~2024)
  - Developed and delivered 4 types of engine maintenance VR/MR content for Korea Shipbuilding & Marine Engineering
- 2022
  - Developed export-type forklift hardware models
  - Established Busan Branch
  - Completed Madrid Trademark applications in the US, UK, Canada, and Japan
  - Developed motor grader, loader, and dozer driving simulators
  - Trade Business Identification Number issued by the Korea International Trade Association
  - Developed ship painting simulator for Hyundai Heavy Industries
- 2021
  - Selected as an INNOBiz (Technology Innovation SME)
  - Won the R&D 2021 Innovation Grand Prize
  - Developed VR assembly training solution for small equipment
  - Won additional orders from Volvo Korea and developed excavator driving simulator (~2022)
  - Developed immersive content for the Work-Study Program at Ulsan Polytechnic Campus
- 2020
  - Relocated office building
  - Won Grand Prize (Minister of Education Award) at the EdTech Excellence Contest hosted by the Ministry of Education
  - Selected as a designated company for military service exemption
  - Developed excavator driving simulator with Volvo Korea
  - Developed VR solution for design verification and delivery to Hyundai Construction Equipment
  - Received the Minister of Education Award for heavy equipment simulator
- 2019
  - Established Corporate Research Institute (Immersive Content Research Institute)
  - Developed AR content for reactor power reduction for the Haeoreum Alliance
- 2018
  - Developed forklift driving simulator and delivery to the Army Corps of Engineers
- 2017
  - Entered the Public Procurement Service's Venture Nara platform
- 2016
  - Developed excavator driving simulator and delivery to the Ministry of National Defense Logistics School
- 2014
  - Delivered transformer videos to Hyundai Heavy Industries
  - Registered as a venture company (No. 20140111661)
- 2013
  - Established SimG Co., Ltd.

## Fire Initial Response Training System for Fire Safety Managers

### Yonsei University Industry Foundation

National Fire Assessment Institute, SIMNET, UTEC, Hanbitsoft, Hoseo University Industry-Academic Cooperation Foundation

#### Content Overview

- To enhance the capabilities of fire safety managers, a realistic virtual training system and content were developed using technologies based on eXtended Reality (XR), including Virtual Reality (VR), Augmented Reality (AR), Mixed Reality (MR), Digital Twin, 3D Treadmill motion, and Haptic Gloves.
- To develop the content for this metaverse training system, we organized the representative exhibits with a **simulation of fire safety managers inspecting and operating fire facilities** using AR technology, an **immersive fire response training simulation** within a virtual Digital Twin building using VR and 3D Treadmill technology, and an **AI system for evacuation guidance voice and motion evaluation** that recognizes and assesses the trainee's voice and motion in real time.

#### XR-based Fire Facility Inspection and Operation Simulation



#### XR-based Fire Response Training Simulation



AI System for Evacuation Guidance Voice and Motion Evaluation for Fire Safety Managers



Applied Technologies



Business Direction

- Diverse sales methods based on overseas/domestic B2B commercialization models for education/training/evaluation systems and XR-based technologies
- Sales of fire facility inspection/operation simulators in the B2C market
- Achieving revenue through the sale of scenario-based selectable database technology and extended generation technology
- Performing human safety assessments and evacuation safety consulting through fire spread and evacuation simulations



**XR기반 소방안전관리자 교육훈련 플랫폼**

**Offline**

- XR 기반 화재대응 교육훈련 시뮬레이션 시스템
- XR 기반 소방시설 점검작동 시뮬레이션 시스템

**Online**

- 비대면 XR 콘텐츠 온라인 플랫폼

**특징:**

- 소방설비 점검 역량 강화 모듈 개발
- XR기반 가상훈련 체계 및 콘텐츠 개발
- 디지털트윈 최신기술 적용
- XR기반 반응형 교육훈련 및 평가시스템 개발

**화면 유형:** 매뉴얼 화면, 훈련선택 화면, 훈련실행 화면

## Yonsei University Industry Foundation



**Address** 50 Yonsei-ro, Seodaemun-gu, Seoul  
(Sinchon-dong, Yonsei University)

**CEO** Jong-il Hong

**E-mail** hong.jongill@yonsei.ac.kr

**Industry** School

**Main Number** +82-2-2123-2140

**Homepage** research.yonsei.ac.kr

**Business** Business Facility Management,  
Business Support, and Rental Services

### Company Overview

- Developed an augmented reality-based integrated disaster response training simulator
- Developed multi-media multipath adaptive network technology
- Developed simulation-based organizational emergency preparedness training technology
- Developed wireless optical communication-based vertical mobile communication network technology
- Developed intelligent stealth technology to minimize exposure of information and communication resources for public affairs and missions
- Developed trusted interoperability technology for national defense mobile environments for real-time information sharing
- Developed fixed/mobile platform-based dynamic thematic map construction technology for building next-generation digital national territory information

### Core Technologies

- Many papers and patents in artificial intelligence, big data, and 5G networks
- Executed numerous development projects for XR and AI-based technologies and camera motion recognition technologies  
(Development of an Augmented Reality-based Integrated Disaster Response Training Simulator, Real-time Detection System Fusion of Fainted Workers and Workplaces Based on Complex Augmented Reality and AI, etc.)
- Provided advice on various evaluation systems in the ICT sector
- Performed in the development of the Augmented Reality-based Integrated Disaster Response Training Simulator (Awarded the Minister of the Interior and Safety Award)
- Contributed to R&D in the Smart Policing sector for the National Police Agency

### History

- 2024**
  - Professor Jong-il Hong appointed as Head of Research Office/Industry-Academic Cooperation Foundation
  - Received Minister of Trade, Industry and Energy Award for Intellectual Property Creation and Utilization Support Project
- 2023**
  - Carried out Y-Linc Project
  - Selected for Intellectual Property Creation and Utilization Support Project
- 2022**
  - Professor Ji-hyun Kim appointed as Head of Research Office/Industry-Academic Cooperation Foundation
  - Expanded dedicated patent offices by field (11 → 13)
- 2021**
  - Selected for the KIPO Demand-Based Invention Interview Support Project (TYPE 5)
  - Won the 2021 Excellent Institution for Patent Quality Management by KIPO
  - Yonsei Signature Research Cluster Project '5-6-7 Project'
  - Established the Technology License Compensation Deliberation Committee at the Industry-Academic Cooperation Foundation and held meetings regularly (twice a year)
  - Established an Integrated Research Performance Management Platform
- 2020**
  - Professor Chung-yong Lee appointed as Head of the Research Office/Industry-Academic Cooperation Foundation
  - Exceeded KRW 400 billion in research funding (based on Sinchon Campus Information Disclosure)
  - Selected for the KIPO Demand-Based Invention Interview Support Project (TYPE 1)
  - Held the Intellectual Property Rights Deliberation Committee Meeting
  - Selected as one of 29 Teams for the Phase 4 Brain Korea 21 (BK21+) Education Research Groups
  - Selected for the Ministry of Science and ICT's Artificial Intelligence (AI) Graduate School Support Project
  - Selected for the National Research Foundation of Korea's Innovation Growth Leading Advanced Research Talent Development Project (KIURI)

# National Fire Assessment Institute



**Address** #2211, Building B, 43 Iljik-ro, Gwangmyeong-si, Gyeonggi-do (GIDC)  
**CEO** Yong-joo Yeo  
**E-mail** -

**Main Number** +82-70-4482-0116  
**Homepage** www.nfai.or.kr  
**Business** Fire Risk Diagnosis, etc.  
**Industry** Guidance and Consulting

## Company Overview

- A non-profit corporation established to enhance expertise in the fire and safety fields and to establish an advanced safety culture through research on fire, safety management, and risk assessment.
- Aims to contribute to the advancement of firefighting technology by enhancing private sector autonomous safety capabilities in the fire safety field and by developing and distributing free diagnostic and evaluation technologies capable of deriving fire risk levels.

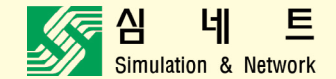
## Core Technologies

- Fire Risk Assessment Tool (Risk Diagnosis Technique by Fire Growth Stage): A risk diagnosis technique that reflects changes in response elements according to the fire growth stage.  
 \*Growth Stages: Fire Prevention → Detection and Alarm Initial Response → Fire Extinguishing Equipment → Public Fire Brigade → Building Fire Resistance Performance

## History

- July 21, 2022** • Signed MOU for 'Research and Development of Policies and Technologies in Fire Safety Fields, Including Fires and Explosions' (National Association of University Fire Science Professors)
- Signed MOU for 'Policy Development and Technology Exchange in Fire Safety Fields, Including Fires and Explosions' (Korean Society of Fire Science and Engineering)
- September 17, 2021** • Signed MOU for 'Accident Prevention in Fire and Disaster Prevention Fields, Including Fires and Explosions' (KB Insurance Adjusters)
- December 30, 2020** • Designated as a Fire Safety Grade Workplace (No. 1)
- July 1, 2020** • Appointed 78 Expert Committee members (professors, professional engineers, etc.) on fire and explosion safety
- January 15, 2020** • Established the National Fire Assessment Institute (Incorporated)
- December 31, 2019** • Approved for establishment by the competent authority (National Fire Agency)

# SIMNET



**Address** 157 Jukdong-ro, Yuseong-gu, Daejeon  
**CEO** Jin-seop Cha  
**E-mail** -  
**Industry** Software Development, Supply, and Consulting

**Main Number** +82-2-790-6560  
**Homepage** www.simnet.co.kr  
**Business** Defense M&S Systems, Simulators, and CBT, ICT/SI

## Company Overview

- SIMNET is a specialized modeling & simulation company established in 1999. Since its inception, it has participated in various defense simulation and simulator development projects, contributing to the advancement of the domestic augmented reality industry through the development of core technologies and the training of technical personnel. By integrating defense expertise with cutting-edge ICT technologies such as IoT, augmented reality, and AI, SIMNET is establishing itself as the nation's leading defense M&S firm.

## Core Technologies

- Object/unit-level engagement simulation technology
- Multiple resolution conversion/modeling technology
- Live-virtual-constructive integrated architecture technology
- XR technology-based virtual environment creation technology
- Haptic feedback and motion platform interface technology

## History

- 2022** • Establishment
- 2019** • Mass produced Joint Fire Training Simulator (JFTS)
- 1999** • Developed of army synthetic battlefield training system (Build-i)



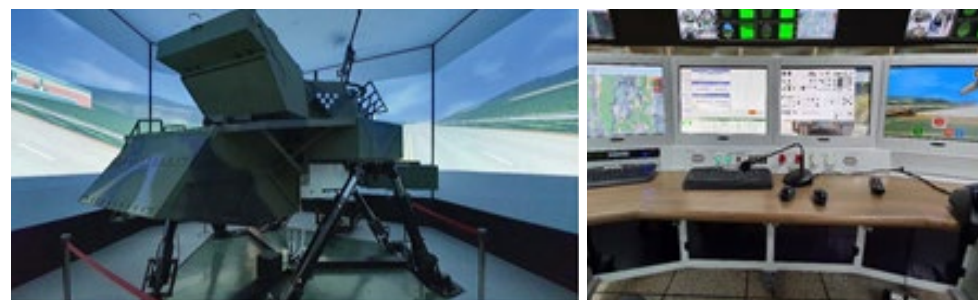
Development and mass production of joint firepower simulator system



Development and mass production of joint firepower simulator system



K1A2 Tank Gunnery Simulation Training Equipment



UTEC



**Address** 5F, 129 Yangpyeong-ro, Yeongdeungpo-gu, Seoul  
**CEO** Hyung-jun Yoo  
**E-mail** -  
**Industry** Application Software Development, Supply, and Consulting

**Main Number** +82-2-2663-7925  
**Homepage** www.utec.kr  
**Business** AI-based Big Data platform, AR/VR/XR-based data solutions, engineering IT and SI, disaster/safety environment information platform, web solutions and software development

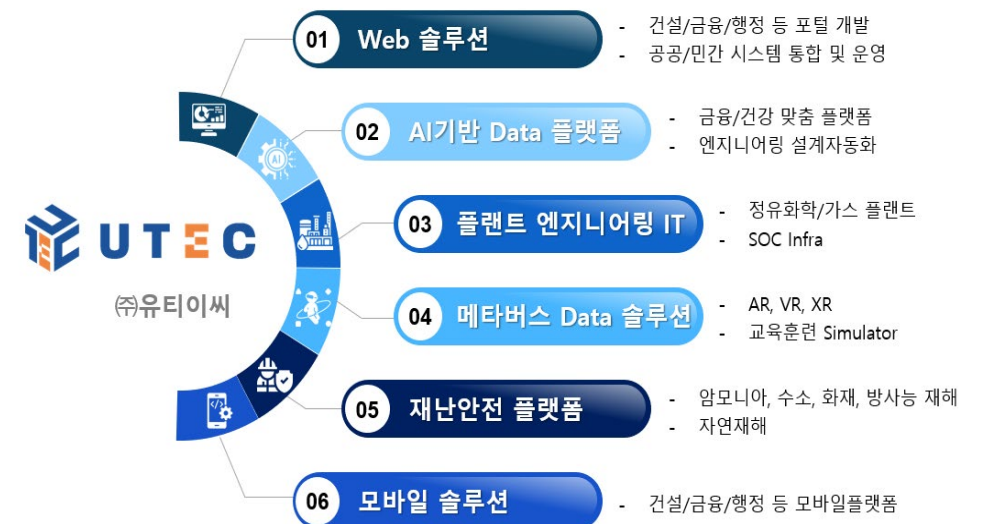
Company Overview

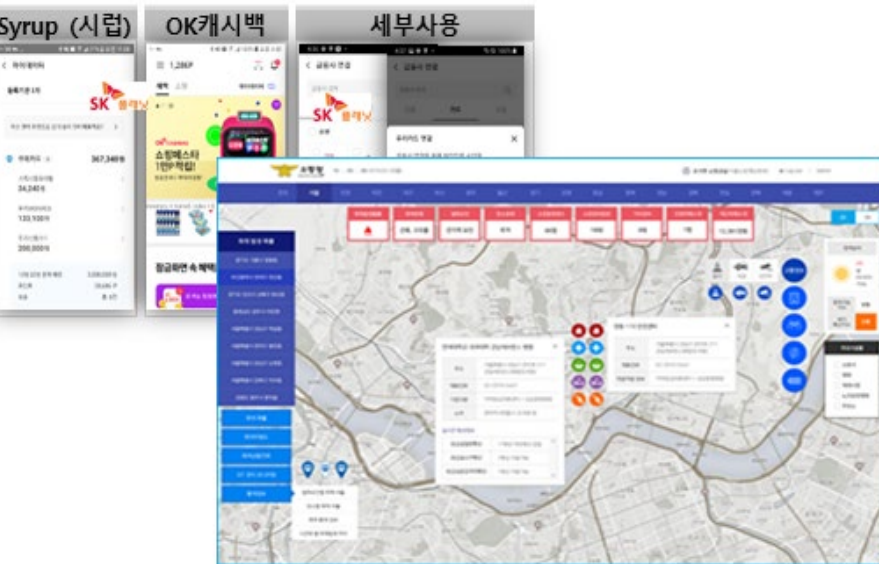
- **As-is:** Company with AI-based Big Data solutions and foundational XR-based Metaverse technology
- **To-be(2025):** Company expanding into AI-based Big Data domains and with XR-based Metaverse solutions
- **Vision (2030):** Company with AI-based Big Data platform and XR-based Metaverse solutions/ Digital Twin and Cloud Mobile Infrastructure

Core Technologies

- Plant Engineering IT
- Big data platform, disaster safety platform, artificial intelligence platform
- Mobile solutions, XR/smart device-based metaverse solutions

... AI, Big Data, Metaverse 플랫폼 전문기업 ...





## History

- 2024
  - Launched mobile-based AI groupware platform 'WORKAID'
  - Performed safety diagnosis for ammonia transport pipeline threat assessment and developed safety standards
- 2022
  - Won SI development contract with the Construction Workers Mutual Aid Association
  - Developed a data-based engineering rule library for design error verification
  - Selected as a Seoul-type Small Giant
- 2021
  - Selected as an Active Digital Small Giant Enterprise in Water Technology by the Ministry of Environment
- 2020
  - Acquired Technology Innovation Small Business (Inno-Biz) status
  - Certified as an Excellent Technology Evaluation Enterprise by NICE Evaluation Information
- 2019
  - Received a Commendation from the Deputy Prime Minister and Minister of Economy and Finance
- 2018
  - Participated in Yonsei University Graduate School of Engineering
- 2015
  - Received a Commendation from the Minister of the Interior and Safety

# Hanbitsoft



**Address** #1506, 15F, JEI-Platz, 186 Gasan digital 1-ro (Gasan-dong), Geumcheon-gu, Seoul  
**CEO** Seung-hyeon Lee  
**E-mail** -  
**Industry** Publication, Video, Broadcasting, Information and communications

**Main Number** +82-70-4050-8000  
**Homepage** www.hanbitsoft.co.kr  
**Business** Developing and servicing games

## Company Overview

- As a leading publishing company in the Korean game industry servicing PC online and mobile games across various genres, Hanbitsoft is preparing for a new leap forward by integrating the Metaverse and AR/VR technologies.
- Based on the vast experience and assets accumulated over many years of diverse services, it provides users with differentiated gaming experiences while also pursuing revenue diversification through the utilization of game IPs. Hanbitsoft is concentrating its capabilities on flexibly and passionately pioneering and leading new domains.
- It is currently developing a platform that utilizes AI technology to create metaverse avatars with unique voices. This enables the creation of 3D avatars that speak with the exact same voice and emotions, and the platform can be used across various fields, including the metaverse.
- It currently services a variety of PC online games such as 'Audition,' 'Granado Espada,' 'Aika,' 'Hellgate: London', and 'Mythos,' as well as mobile games including 'Club Audition,' 'Puzzle Audition,' and 'Urban Fisherman M'.

## Core Technologies

- Developed numerous simulators, including an augmented reality-based integrated disaster response training simulator
- Over 20 years of experience in developing diverse projects in games, game tools, network games, AR, and MR
- Its experts participated in 4th Industrial Revolution technologies such as AI, healthcare, XR, and blockchain
- Participated in the research team for the augmented reality-based Integrated disaster response training simulator development project
- Many of its researchers participated in possessing the capabilities to develop disaster response education and training systems



## History

- July 2024** • Globally launched metaverse firefighting training under the brand 'Fire XR'
- March** • Launched the beta version of AI voice synthesis service 'VoiceGen'
- June 2023** • Achieved Grade A in 'Innobiz' by the Ministry of SMEs and Startups
- January** • Registered in the supplier pool for the government's AI Voucher Program
- October 2022** • Selected for the Korea Software Industry Association's 50 Billion Won Club
- May 2021** • 'XR Flagship Project', a system to enhance initial fire response capabilities for fire safety managers
- September 2020** • Signed contract with Jeungpyeong-gun Office for the construction of the Jeungpyeong-gun Disaster Response Integrated Training System ('20-'21)
- July** • Signed contract for VR sports classroom integrated platform
- September 2019** • Developed an augmented reality-based disaster response integrated training simulator (2015–2019) by the Ministry of the Interior and Safety
- March 2005** • Opened game community portal site 'HanbitOn'
- December 2002** • Received Grand Prize in the Entertainment Sector at the 2002 Korea Venture Business Awards selected by the Korea Management Association
- January 2002** • Listed on the KOSDAQ market
- January 1999** • Established Hanbitsoft, began domestic distribution of StarCraft

# Hoseo University Industry-Academic Cooperation Foundation



**Address** 20 Hoseo-ro 79beon-gil, Baebang-eup, Asan-si, Chungcheongnam-do  
**CEO** Won-gyo Seo  
**E-mail** -  
**Industry** School

**Main Number** +82-41-540-5755  
**Homepage** www.hoseo.ac.kr  
**Business** Business Facilities Management and Business Support Service, Renting and Leasing

## Company Overview

- We also focus on fostering venture companies by using various startup support systems, playing a key role in establishing the foundation for a creative economy ecosystem through the value creation of innovative ideas.
- We contribute to the revitalization of the creative economy by cultivating creative talent with excellent practical skills and through customized employment linkage activities.
- We promote enterprise growth by supporting the nation's largest on-campus industry-academia-research cluster infrastructure and supplying top talent, while supporting the development of the university through scholarships, research funding, and various cooperative projects for over 1,300 partners.

## Core Technologies

- We have a deep understanding of firefighting and fire safety through the conduct of fire investigations, research on the development of automated fire detection systems, fire demonstration studies, and actual fire studies. We have accumulated know-how regarding core elements of scenario design by simultaneously conducting a national project on the analysis of field personnel activities and training methods for designing training scenarios assuming chemical accidents and terrorism, as well as developing chemical terrorism response training scenarios (spraying anhydrous ammonia gas at subway complex stations) and curricula for operating chemical terrorism response equipment.  
 Through this, we are able to execute design projects incorporating specialized expertise, such as the design of elemental technologies for the production of training equipment and the design of fire response scenarios for this project.
- Also, having signed MOUs and established partnerships with the National Fire Academy, the Gyeonggi Provincial Disaster and Safety Countermeasure Headquarters, and the Chungcheongnam-do Fire Safety Headquarters, we can derive research outcomes by applying the core training elements required by government agencies.



## History

- April 2022** • Selected for the Leading University for Industry-Academic-Research Cooperation (LINC 3.0) (Ministry of Education)
- March** • Selected for the Phase 2 Hyper-connected High-reliability Industrial Intelligence Research Center (University ICT Research Center Support Project) (Ministry of Science and ICT)
- February 2022** • Selected for the Startup-focused University Project (Ministry of SMEs and Startups)
- July 2021** • Selected for the Makerspace (Specialized Lab) Establishment and Operation Project (Ministry of SMEs and Startups)
- June** • Selected for the Next-Generation Display Practical AI Convergence Workforce Training Project (Ministry of Trade, Industry and Energy)
- March** • Selected for the Chemical Substance Safety Management Specialist Workforce Training Project (Ministry of Environment)

# XR-Based Automotive Maintenance Training and Support Platform

## WABOTECH

### Content Overview

An innovative practical training environment that reduces on-site risks and enhances educational precision

#### VR-based Eco-friendly Automotive Maintenance Training

- **NCS Standard-based Work Implementation:** Thoroughly reflecting the National Competency Standards (NCS) curriculum, we provide process-oriented learning that can be immediately applied in the actual field.
- **Learning & Assessment Dual Mode:** Enables fully self-directed, independent learning through a 'Learning Mode' that follows step-by-step guides and an 'Assessment Mode' that allows for self-assessment of competencies without guidance.

#### VR-based Training for Future Automotive Environment Certification Experts

- **Virtualization of High-Risk, High-Cost Certification Tests:** By virtualizing demanding and dangerous certification testing environments, such as electric vehicle battery safety and electromagnetic compatibility, we streamline the expert training process.
- **Experience of Actual Testing Processes:** Mastering complex certification procedures and the use of measurement equipment in virtual reality increases certification pass rates and drastically reduces preparation costs.

#### AR-Based Remote Education and Maintenance Support System

- **Remote Support Breaking Down Spatial and Temporal Constraints:** Real-time sharing of on-site conditions via AR glasses allows experts to provide precise maintenance guidance from a distance, as if they were right beside you.

### Applied Technologies

#### Next-Generation Engineering Tools Integrating Deep Learning and High-Precision Alignment Technology

- **Real-Time Object Recognition and Deep Learning:** AI trained on thousands of part data points identifies on-site parts in real-time and accurately matches them with appropriate maintenance information and measurements.
- **High-Precision AR Augmentation and Alignment Technology:** Maximizes operator visual intuition through technology that overlays digital manuals and circuit diagrams onto the actual physical locations of the vehicle without error.

- **Immersive Interaction Design:** By applying a physics engine that simulates real tools within a VR environment, it supports practical learning that forms “muscle memory” rather than mere viewing.

✓ **Business Direction**

- **Enhancing Profitability and Professionalism through the Digital Transformation of Maintenance Education**
- **Standardization of the B2G/B2E Training Market:** We will establish ourselves as an essential infrastructure for training eco-friendly vehicle maintenance personnel by distributing standardized educational curricula to the public and educational institutions, including vocational schools, universities, and military units.
- **Global Remote Technical Support Network:** By connecting domestic and international maintenance networks via an AR system, we will bridge the technology gap and deliver value through reduced after-sales service (AS) costs and enhanced brand credibility.



# WABOTECH



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**E-mail** wabotech@wabotech.com  
**Industry** Application Software Development and Supply

**Main Number** +82-2-6954-1321  
**Homepage** www.wabotech.com  
**Business** Educational Content and Software Development

📄 **Company Overview**

**WABOTECH's XR Solutions: Designing Value Beyond Reality**

- Driven by “value-oriented management” and “continuous technological innovation,” WABOTECH has built a robust industrial ecosystem that remains unshaken by any environmental changes. With bold investments that transform crises into opportunities for growth and flexible thinking, we are committed to creating infinite value across the entire industry, going beyond mere technology supply.
- Based on a human-centered corporate culture of “for all of us, not just for myself,” we realize the value of mutual growth where customers, employees, and society grow together.
- WABOTECH's vision is clear: to become a “global leader in digital twin solutions” that integrates 3D reverse engineering, XR (VR/AR/MR) convergence content, and precision engineering technology.
- We will maximize corporate competitiveness through unrivaled technological capabilities and design a sustainable future through eco-friendly mobility technology. WABOTECH's innovation will never cease, setting the standard for tomorrow with unparalleled expertise.

⚙️ **Core Technologies**

- WABOTECH provides integrated solutions that maximize corporate manufacturing and technological competitiveness by combining precision engineering with ultra-realistic virtual fusion technology.
- As a key capability, we transform aging parts and complex geometries into precise digital data assets through reverse engineering of 3D models. Based on this, we perform mechanical and automotive part design and CAE analysis to realize perfect performance prediction prior to prototype production.
- By leveraging AR-based recognition technology and VR/AR/MR content development capabilities, we build simulation and training platforms optimized for industrial sites. We have enhanced technology accessibility through user-centric UX/UI design and are leading the standardization of eco-friendly mobility technology by supporting automotive emission-reduction and measurement equipment.

- Beyond simple visualization, WABOTECH's technology accelerates business innovation for clients by creating an "Industrial Digital Twin" that supports data-driven decision-making.



## History

- February 2025 ● [NIER] Post-management for Performance Maintenance of Gas Heat Pump (GHP) Reduction Devices (II)
- November ● [NIER] Maintenance Service for Virtual Reality (VR) Program for Zero-Emission Vehicle Environmental Certification Evaluation Training (2025)
- July ● [KECO] 5th Phase of Automotive Environmental Big Data Construction Project (Analysis)
- May ● [NIER] Research on the Introduction of an Environmental Performance Management System for Electric Vehicles Using Driving and Battery Information, etc. (III)
- December 2024 ● [KECO] Database Development for Detailed Classification of Grade 3 Emission Vehicles
- August ● [NIER] Maintenance of Virtual Reality (VR) Program for Zero-Emission Vehicle Environmental Certification Evaluation Training
- July ● [Ministry of Environment] Research on Improvement Measures for Performance Verification of Road Cleaning Vehicles
- June ● [NIER] Post-management for Performance Maintenance of Gas Heat Pump (GHP) Reduction Devices
- [KECO] 4th Phase of Automotive Environmental Big Data Construction Project (Analysis)

- March ● [NIER] Research on the Introduction of an Environmental Performance Management System for Electric Vehicles Using Driving and Battery Information, etc. (II)
- [AEA] 2024 Service for Smart Driving App Activation and Performance Evaluation
- [Ministry of Environment] Development of Improvement Measures for Automotive Emission Grade Classification
- November 2023 ● [ICMTC] AR-based K105A1 Implementation of Self-Propelled Artillery Maintenance Support Equipment
- September ● [KECO] Automotive Environment Big Data Construction Project, 3rd Phase (Analysis)
- July ● [Korea University of Technology and Education] Development of Virtual Training Content for 2023 (Digital New Technologies and Other Fields)
- [KOTSA] Establishment of VR/AR-based Training Environment for Automotive Inspection Technicians
- [SMTECH] Development of VR-based NCS Eco-friendly Autonomous Driving Vehicle Practice Module
- June ● [NIER] Research on the Introduction of an Environmental Performance Management System for Electric Vehicles Using Driving and Battery Information, etc.
- May ● [AEA] Service for Activation of Smart Driving Evaluation System and Performance Evaluation, 2nd Phase

## [Curio AR Play] Immersive EdTech for Children

### PlayCurio

#### ✓ Content Overview

##### ▶ Curio AR Play Series

- Using a real-time augmented reality size-comparison function (domestic patent registered), users can freely check the sizes of all included animal specimens in real-time, regardless of species
- An edutainment content service linking over 100 physical AR cards with a mobile application, providing animal information in 8 languages
- Enabling highly immersive nature exploration learning by providing realistic graphics, animations, and vocalizations of 3D animal specimens
- Proven diverse OSMU applicability across various fields through collaborations with SK B tv IPTV content 'Living Exploration,' Visang Education's 'Wacam Safari' and 'Science Immersive Content Theme Hall,' Harim's 'Yonggari-ddang,' the Seodaemun Museum of Natural History, and Lotte World Aquarium.

#### ✓ Applied Technologies

##### ① Flat Image Recognition and Tracking:

To provide a user experience that is fun and convenient—allowing young children unfamiliar with general app workflows or text-link-based user experiences to use it intuitively—by simply showing the app camera an image of a desired learning card to trigger related functions on the screen, AR image recognition and tracking are... In Use

##### ② Spatial (Ground) Recognition and Real-time Mapping:

For learning activities where observing the form or movement of an object from various angles is important, spatial recognition is used to provide more realistic opportunities for indirect experience or to create vivid expressions and staging in which an object appears in the current real-world space. This allows the model to be mapped to the space in real-time or for the starting point of an animation to be generated naturally.

##### ③ Size Comparison Between Objects:

In learning with real-world character models, such as animals, AR size comparisons can help users gauge the approximate actual size.

#### ✓ Business Direction

##### • Deployment of Online and Offline Marketing

##### • Customer Inflow into Company-Operated Channels

- Securing a PlayCurio brand fan base (brand persona) to efficiently manage SNS accounts—which are effective channels for linking product sales—and revitalizing the directly managed online shopping mall, 'Curio Store.'
- Enhancing product and content awareness by efficiently delivering PlayCurio's brand message through a consistent renewal of SNS uploaded content and the concept, planning, and design of the company's online store (370,000 subscribers on the global YouTube channel).

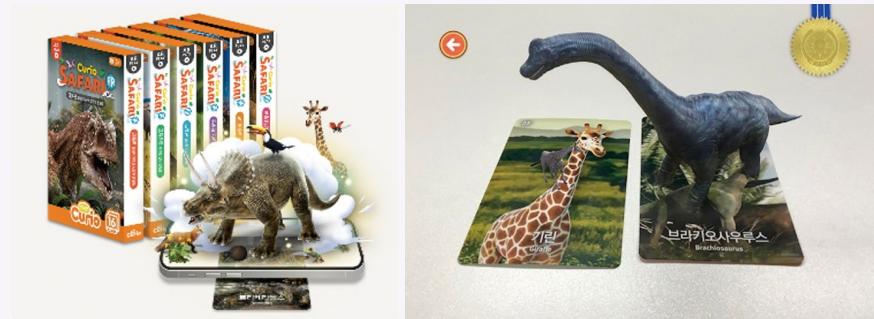
##### • Efficient Advertising Operation Strategy

- Efficient advertising execution achieved through the production of high-quality ad materials, media selection and execution, and result analysis, as well as the stabilization of CPM and CPC.
- Linking branding and sales growth by increasing exposure relative to cost through the discovery of ad media with clearly defined target audiences.
- Enhancing advertising efficiency by discovering messages tailored to customer needs through A/B testing of ad materials.
- Imprinting corporate messages and increasing awareness through organic planning of online and offline promotions.

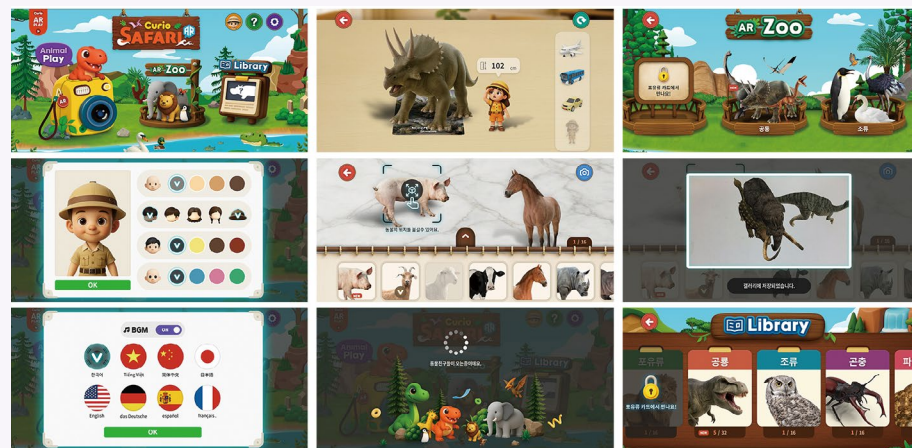
##### • Overseas Market Entry Strategy

##### • Signing MOUs with global local partners and exploring product exports.

- Establishing a foothold for supplying and distributing our products locally by identifying and signing MOUs with overseas local distribution partners.
- Promoting global launches and jointly planning and producing new content using PlayCurio's production capabilities alongside IPs owned by our company or partners by signing content co-production MOUs.
- Promoting exports so that the six products released or planned for development over the past four years since founding, along with our content IPs, can reach customers across the globe beyond Korea.
- Currently in discussions with partners in Japan and Italy regarding launches within the year.



Curio Safari AR Cards (Left), Size Comparison Demonstration (Right)



Screen Captures of Curio Safari AR

# PlayCurio



**Address** Head Office #402-114, 1080Jungang-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do  
**Branch** #1105-9, 11F, R&D Tower, Nuritkum Square, 396 World Cup buk-ro, Mapo-gu, Seoul  
**CEO** Sang-jun Lee  
**E-mail** sjlee@play-curio.com

**Main Number** +82-2-6205-9250  
**Homepage** www.play-curio.com  
**Industry** Software development and supply, video production and distribution  
**Business** App/video production, IP business

## Company Overview

We give children enjoyable experiences with wholesome digital content

- Based on the corporate philosophy of “gifting joyful experiences to children with wholesome digital content,” PlayCurio creates and provides safe, play-based learning content suitable for preschoolers through elementary school students. Representative titles include ‘Curio Safari AR’ and the ‘Detective Pete’ animation IP.

## Core Technologies

- **Technology for Developing Immersive Educational Content**
  - Providing a New Learning Experience Through the Integration of Physical Teaching Aids and Immersive Content
  - Leveraging expertise in children’s content production, we design and develop content that uses immersive technology, tailored to children’s perspectives to stimulate learning interest and achieve optimal learning outcomes.
  - We develop a hybrid content series that combines the advantages of both digital and traditional learning methods by linking physical teaching aids, familiar to primary users (children and parents), with mobile apps via AR.
  - By addressing children’s characteristic low levels of immersion and concentration, we provide rich indirect experiences and audiovisual materials that are not boring or rigid, making them suitable for use at home as non-face-to-face learning methods, such as homeschooling tools.



Corporate Concept Image (Mascot Curi, Rio, etc.)



Representative IP 'Forest Detective Peet'



XR Content Popup Store (Hyundai Department Store)

## History

- December 2025** • Current: Commercialization of 6 proprietary immersive reality educational products, 'Curio AR Play Series' completed
- November** • Holding an XR pop-up store for 'Dinosaur Detective Squad: Detective Pete' at Hyundai Department Store Pangyo Branch (2 weeks)
- September** • Investment Attraction: Signed an acquisition agreement for redeemable convertible preferred shares with NICE-Trigger New Chapter Investment Partnership (2.7 billion KRW)
- July** • Business agreement with Korea Job World for the joint development and expansion of experiential content for children, along with the joint planning and production of dinosaur experience and career exploration programs
- May** • Signed a joint development agreement for immersive content with Japan's Kodansha; developing 'Obakezukang AR'
- July 2024** • Investment Attraction: IBK Industrial Bank of Korea Pre Series-A (700 million KRW)
- May** • Musical Detective Pete "Let's Go to Space!" Premiere: Mapo Art Center
- November 2023** • Detective Pete Season 4 aired on EBS Channel
- October** • Providing 'Detective Peet' snack content via elevator TVs in partnership with Focus Media

# 2

## Manufacturing & Industry

### Aerospace

#### Aviation Industry Cluster Collaboration Platform

Gyeongnam Technopark, Industry-Academic Cooperation Foundation of Kyungnam University, THE COMPANY, Lime CSI, ANYTOY, INFOIN, ZENIA, JNE WORKS, KENCOA Aerospace, PCN, Korea Testing Laboratory, Korea Aerospace Industries Association(KAIA), Aviation Campus of KOREA POLYTECHNIC, KOREA AEROSPACE INDUSTRIES, LG Electronics

### Railway

#### AI-Integrated Metaverse-Based Maintenance Operations Platform for High-Speed Rail Vehicles

NaraInformation, Gyeongbuk ICT Convergence Industry Promotion Association, Dandy Soft, YMX

### Energy

#### Integrated Energy Management Metaverse Platform

Lemonsoft, GWANGJU TECHNOPARK, BonC Innovators, Allione, Chosun University Industry-Academic Cooperation Foundation

### Port

#### Intelligent Logistics Management Platform

SIMSREALITY, Research and Business Development Foundation, PNU, Total Soft Bank, T2L

### Processing

#### Integrated Manufacturing Site Operations Service for Virtual Convergence Industrial Complexes

Chungnam Institute, D-LIGHT PARTNER, AST Holdings, ILJOO Gns

### Ship

#### Eco-Friendly Ship Demonstration and Training Service

Korea Automotive Technology Institute, Konkuk University Industry-Academic Cooperation Foundation, Onmakers



# Aviation: Aviation Industry Cluster Collaboration Platform

## Gyeongnam Technopark

Industry-Academic Cooperation Foundation of Kyungnam University, THE COMPANY, Lime CSI, ANYTOY, INFOIN, ZENIA, JNE WORKS, KENCOA Aerospace, PCN, Korea Testing Laboratory, Korea Aerospace Industries Association(KAIA), Aviation Campus of KOREA POLYTECHNIC, KOREA AEROSPACE INDUSTRIES, LG Electronics

### Content Overview

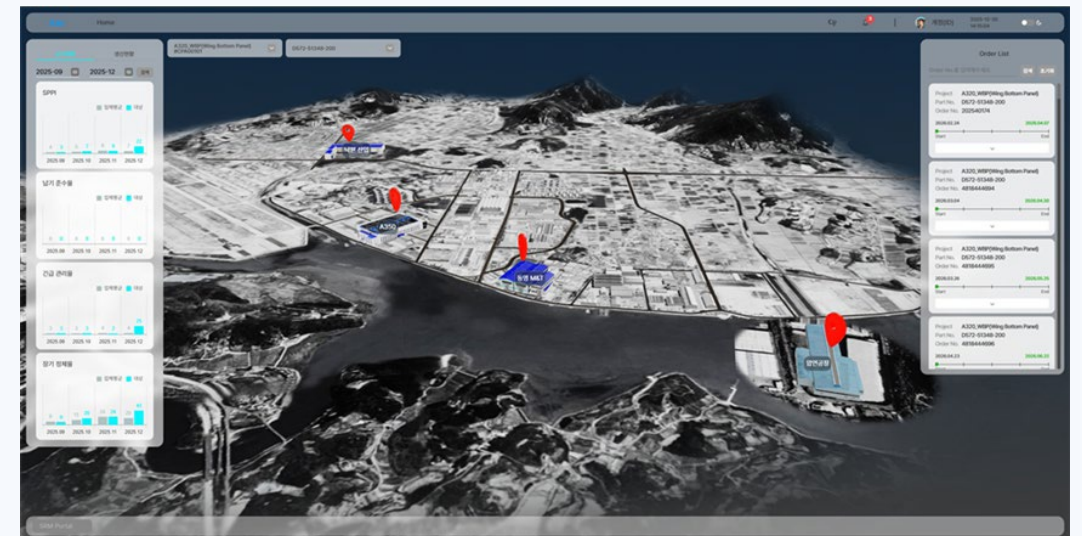
- ▶ We have established a 3D digital twin-based metaverse collaboration platform for the digital transformation of the aerospace manufacturing and supply chain. By connecting KAI with partner companies, it provides an integrated visualization of production and supply status, including production facility operation, completion rates, work progress, logistics, and inventory. It supports remote collaborative decision-making and addresses delivery risks by comparing supply plans and actual performance against orders.
- ▶ It reflects field data in real time by integrating IoT, MES, and SCM data, and offers AI- and XRbased defect detection, work guidance, and process simulation capabilities. It enables the visualization of the entire logistics process and implements integrated control functions, while supporting the business environment through the 'Aerosphere' platform for collaboration, customer management, and multilingual and AI-assisted consultations.

### Applied Technologies

- ▶ **Photo-based 3D Digital Twin**
  - Virtualization of the entire process of the factory, equipment, and logistics to a realistic level
- ▶ **Integrated data pipeline of IoT, MES, and SCM**
  - Integrated collection, linkage, and visualization of production and supply chain data
- ▶ **Quality verification based on AI image recognition**
  - Real-time defect detection and assembly error identification
- ▶ **XR-based work guidance and collaboration**
  - Intuitive visualization of process data and support for remote collaboration
- ▶ **Real-time field integration based on 5G and UWB**
  - Operational optimization based on low-latency data transmission and location tracking

### Business Direction

- **Strategy**
  - Gradual expansion into the aviation manufacturing and maintenance (MRO) market based on the KAI-supplier-centric SRM portal demonstration
  - Establishment of a sustainable revenue model through platform function modularization and SaaS transition
- **Service Enhancement**
  - Advancement of digital twin and AI-based quality management and process/logistics analysis functions
  - Expansion of high-value-added services such as XR collaboration, smart logistics, and work-in-process management
- **Long-term Growth Direction**
  - Expansion of the platform into related industries such as automotive and energy
  - XR education and workforce training Expanding business scope with AI-Twin-based convergence services



# Gyeongnam Technopark



**Address** 22 Changwon-daero 18beon-gil (Palyong-dong), Uichang-gu, Changwon-si, Gyeongsangnam-do

**CEO** Jeong-hwan Kim  
**E-mail** gyun@gntp.or.kr

**Industry** Rental, Machinery and Equipment Rental, Academic and Technology Development

**Main Number** +82-1688-3360

**Homepage** www.gntp.or.kr

**Business** Advancement of regional industrial technology and fostering new growth engine industries

## Company Overview

### Partner for corporate growth, driving force behind Gyeongnam's development

- Gyeongnam Technopark is a hub institution leading the development of regional industries and corporate growth in Gyeongnam. With a mission to advance regional industrial technology and foster new growth engine industries, it supports the technological innovation and global competitiveness of local companies through customized corporate support, strengthening industry-academia-research hub functions, and establishing industrial network platforms. Contributing to the revitalization of the regional economy and job creation with the vision of "Partner for Corporate Growth, Driving Force behind Gyeongnam's Development."

## Core Technologies

- Establishment of technology support infrastructure for key regional industries such as nanobio, steelmaking robots, automotive parts, shipbuilding, marine, aviation, and renewable energy, and support for customized technology development

### I Main Operations

#### Infrastructure Support

- Development and operation of technoparks
- Establishment of local innovation hub, operation of local specialized center
- R&D facilities and equipment sharing program, etc.

#### R&D Support

- Industry-academia-research institute combined joint R&D projects
- Technology commercialization, technology transfer projects, etc.

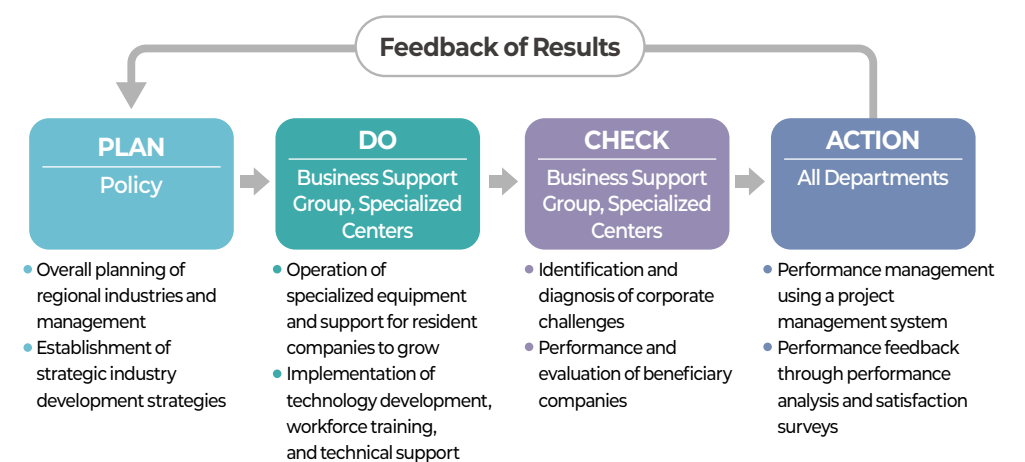
#### Non-R&D Support

- Planning local strategic industry, including local technology policies/industry policies
- Establishment of local strategic industry mid-to long-term development strategies, etc.
- Fostering high-growth companies and local small giants
- Start-up incubation, information use, training, management consulting, test certification, marketing support, etc.

#### Other

- Performing a hub's functions such as connecting regional innovation entities
- Projects commissioned/entrusted by central and local governments
- Other projects required to fulfill the company's purpose of establishment

### I Roles of Each Department



I Infrastructure Development Status



I Sites and Buildings



History

- January 1, 2023** • Organizational restructuring implemented (system of 2 divisions, 8 centers, 1 office, and 1 affiliated center)
- November 19, 2020** • Establishment of the Unmanned Vessel Regulatory Free Zone Demonstration Center
- February 21, 2019** • Opening of the Smart Manufacturing Innovation Center (hub for the dissemination of smart factories in Gyeongnam)
- December 18, 2018** • Expansion of the Automotive Parts Innovation Center (strengthening technology support for future vehicle parts)
- July 22, 2014** • Opening of the Aerospace Center (Jinju / support for aircraft parts and technology)
- May 24, 2012** • Opening of the Science and Technology Promotion Center
- June 28, 2008** • Renaming to Gyeongnam Technopark (Approved by the Ministry of Knowledge Economy)

- December 28, 2007** • Establishment of the Precision Instruments Center (currently the Intelligent Machinery Center)
- December 28, 2006** • Completion of the Headquarters Building and occupancy
- December 16, 2004** • Designation of the Technopark Development Project Operator (Ministry of Commerce, Industry and Energy)
- April 18, 2002** • Opening of the Software Support Center (predecessor to the current Information Industry Promotion Headquarters)
- June 2, 2000** • Establishment of the Gyeongnam New Knowledge Industry Foundation (Date of establishment)

## Industry-Academic Cooperation Foundation of Kyungnam University

IACF **경남대학교 산학협력단**  
Industry Academic Cooperation Foundation, Kyungnam University

**Address** 7 Gyeongnamdaehak-ro, Masanhappo-gu,  
Changwon-si, Gyeongsangnam-do

**CEO** Sang-bo Han

**E-mail** picajo@kyungnam.ac.kr

**Industry** School, Service

**Main Number** +82-55-249-2103

**Homepage** iacf.kyungnam.ac.kr

**Business** Industry-Academic Cooperation  
Foundation, Software  
Development and Supply

### Company Overview

A hub university opening the future of the region by establishing an innovative, practical, and socially contributing industry-academia collaboration model

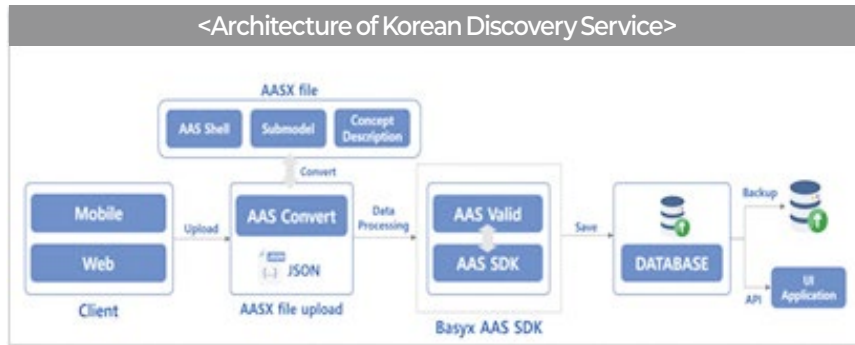
- The Industry-Academic Cooperation Foundation of Kyungnam National University is leading the **development of a metaverse-based aviation industrial complex business collaboration platform**, spearheading the digital transformation (DX) of the domestic aviation industry. Notably, based on the international standard **Asset Administration Shell (AAS)** technology, it standardized digital twin models for aviation manufacturing assets and directly designed and developed a Korean-style **AAS Repository & Registry**. Using the open-source middleware Eclipse BaSyx SDK, it established a data storage and management interface and completed a stable data exchange system based on **Microservices Architecture (MSA)**.

### Core Technologies

- **AAS (Asset Administration Shell)**  
AAS is a core standard framework for connecting physical assets (equipment, parts, etc.) in manufacturing sites with the digital world.
- **The Standard for Digital Twins:** AAS standardizes asset data models to implement the Internet of Things (IoT) and digital twins.
- **Key Features**
  - **Metadata Management:** Stores and searches basic asset information, and provides registration, modification, and deletion functions
  - **Version and History Management:** Systematically manages the change history and versions of asset data
  - **Data Integration:** Supports the exchange of various manufacturing data through the AAS Repository and Registry

- **Standard Interoperability:** Analyzed and designed with domestic and international Industrial IoT standards, such as OPC UA and ISO 23247, to ensure interoperability.
- **Eclipse BaSyx (Open Source Middleware)**  
BaSyx is open source middleware and a reference implementation for Industry 4.0 used to practically implement AAS standards.
- **Role of the SDK:** Provides development tools (SDK) to enable direct implementation of the AAS Repository, and standardizes data storage and management interfaces.
- **Key Implementation Areas**
  - **AAS Repository Core:** Serves as a standardized repository for asset data
  - **Submodel Repository Core:** Independently manages detailed process or specification data (Submodel) included within the AAS
  - **AAS Environment Core:** Provides an integrated operational environment between AAS, Submodel, and Concept Description
- **Data Processing Process**
  - **AAS Parsing:** Analyzes standard AASX files using an AASX Deserializer so that the system can recognize them
  - **Data Storage:** Automatically serializes and stores data by integrating with databases such as MongoDB, and supports fast searching through indexing
- **Interaction between Technologies**  
This platform defines aerospace manufacturing equipment data using a standard format called AAS, and ultimately enables the retrieval of equipment specifications within metaverse services and their use in simulations.





### History

- February 2025** • Selected for the Neulbom School program for lower elementary grades
- July 2024** • Selected for the Regional Intelligent Innovation Talent Development Project
- March** • Selected for the Manufacturing Industry-Specialized Ultra-Large Manufacturing AI Service Development and Demonstration Project and the Advanced Industry Talent Training Bootcamp Project
- February** • Professor Sang-bo Han (Department of Electrical Engineering) inaugurated as the 8th Head of the Industry-Academic Cooperation Foundation and Dean of Research
- June 2023** • Selected as a Software (SW)-Centered University
- April 2022** • Selected for the Phase 3 Leading University for Industry-Academic-Research Cooperation (WISE LINC 3.0)
- March 2019** • Head of the Industry-Academic Cooperation Foundation promoted to Vice President for Industry-Academic Cooperation
- April 2017** • Selected for the Socially Tailored Leading University for Industry-Academic Cooperation (LINC+) Project
- February** • Professor Jae-kwan Kang (Department of Mechanical Engineering) inaugurated as the 7th Head of the Industry-Academic Cooperation Foundation and Dean of Research
- March 2014** • Selected for the Leading University for Industry-Academic Cooperation (LINC) Project
- July 2012** • Achieved 'Grade A' in the Centralized Research Funding Management Survey
- March 2004** • Incorporation of the Industry-Academic Cooperation Foundation; Professor Hyun-wook Koh inaugurated as the 1st Head of the Foundation

## THE COMPANY

**Address** #305, Building 4, 21 Bongambuk 7-gil, Masanhoewon-gu, Changwon-si, Gyeongsangnam-do  
**CEO** Jong-chul Park  
**E-mail** office@besteo.kr  
**Industry** Software Development and Supply

## THE COMPANY

**Main Number** +82-55-609-1909  
**Homepage** www.bestco.kr  
**Business** Medical and Safety Platform, Vision AI, AI Analytics, Process/Equipment

### Company Overview

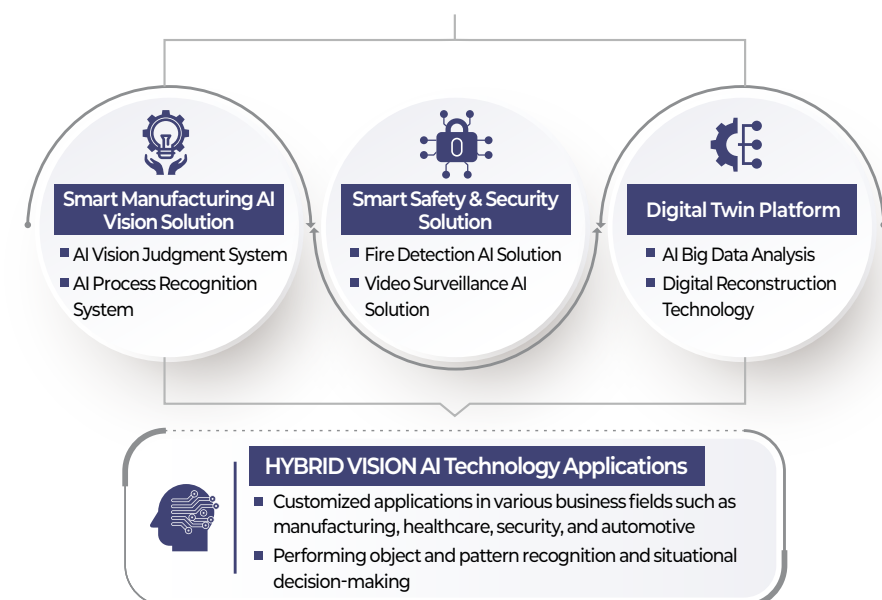
#### Turning Technology into Culture

- THE COMPANY, Co., Ltd., a young company with a vision, values collaboration and communication, and provides optimal solutions through research and “constant challenges with creative thinking.”

### Core Technologies

- Hybrid Solution technology deeply analyzes image data to accurately classify and detect objects and patterns, make situational judgments, and provide customized solutions tailored to customer needs across fields such as manufacturing, healthcare, security, and automotive, rthereby improving productivity and efficiency.

## THE COMPANY



### 스마트 제조 시 비전 솔루션



**시 비전 판정 솔루션**  
불규칙·비정형 제품 검사와 문자 판독으로 공정 효율성을 높이는 솔루션

**시 공정인식 솔루션**  
생산 제품의 작업 위치를 자동 확인·추적해 공정 진행률을 관리하는 솔루션

### 스마트 안전·보안 솔루션



**화재 감지 시 솔루션**  
시가 초기 연기를 감지해 화재 위험을 알리고, 야간 산발 발생 시 발화 위치를 추정하는 솔루션

**영상 관제 시 솔루션**  
영상인식 시를 적용해 안전징비 미착용, 긴급상황, 위험지역 침입 등 위험 행위를 실시간 감지·모니터링하는 안전 솔루션

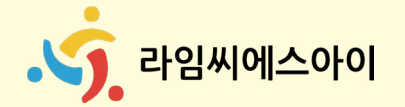
### 디지털 트윈 플랫폼



**시 빅데이터 분석**  
생산 데이터 분석으로 최적 환경을 도출하고 디지털 트윈과 연계해 시각화하는 시 솔루션

**디지털 재현 기술**  
물리 자산의 가상화 및 시뮬레이션을 기반으로 실제 상황 재현·검증을 통한 의사결정 지원

# Lime CSI



**Address** #301 to #354, 4 Jungang-daero 61beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do  
**CEO** Ji-sook Jo  
**E-mail** monami0707@naver.com

**Main Number** +82-70-5099-0836  
**Homepage** www.csitech.co.kr  
**Industry** Wholesale and retail  
**Business** Software Wholesales

## History

- September 2025** • Demonstration development of Korea Non-Ferrous Metals forklift operation platform
- June** • Establishment of diplomatic information dedicated network construction and operation project
- May** • Development of passport network project
- February** • Development of wireless network for Construction Mutual Aid Association
- January** • Development of network for Lotte Chilsung
- May 2024** • Development of quantum security-based 5G specialized network device identification technology and test verification technology
- Development of manufacturing data interoperability virtual commissioning technology
- Development and demonstration project of ultra-large manufacturing AI services specialized for the manufacturing industry
- January** • Development of WIFI 6E and 5G specialized networks within the Aviation Industrial Complex Metaverse Project
- May 2023** • Supply of SSL VPN and Wireless LTE for KT (Xgate)
- April** • Closing of Suwon Branch Office
- September 2022** • Selected as lead company for Gyeongnam Technopark 5G Cluster Creation and Demonstration Testbed Research Group
- July** • Development of MES network for Taerim Industry
- May** • Development of wireless network for Smart HACCP certification at the Korea Food Cluster Promotion Agency
- March** • Development of wireless network for Changwon Joint Logistics Center
- September 2021** • Development of forklift safety management system for Doosan Heavy Industries
- March** • Development of wireless network and wireless control center for MES system at Shinsung Delta Tech
- May 2019** • Participated in the development of KT G Cloud Center
- February** • Opening of Suwon Branch
- January 2018** • Establishment of the company

## History

- 2025** • Planning of an AI-based smart emergency patient transfer request platform
- 2024** • Development of AI-based real-time fire detection technology
- 2023-2025** • Development of a smart logistics control system for aircraft material inbound/outbound and transfer status
- 2023-2025** • Development of a speed prevention system for child protection zones integrated with traffic signals

# ANYTOY



**Address** #609, 59 Gwangnyeocheonam-ro, Naeseo-eup, Masanhoewon-gu, Changwon-si, Gyeongsangnam-do  
**CEO** Ki-soo Shin  
**E-mail** anytoyrnd@naver.com  
**Industry** Manufacture

**Main Number** +82-55-346-7406  
**Homepage** www.anytoy.net  
**Business** Robotic Automation Systems, Manufacturing IT, SW

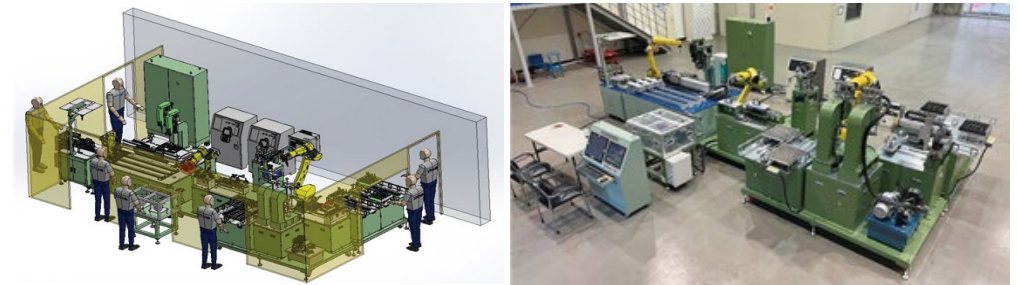
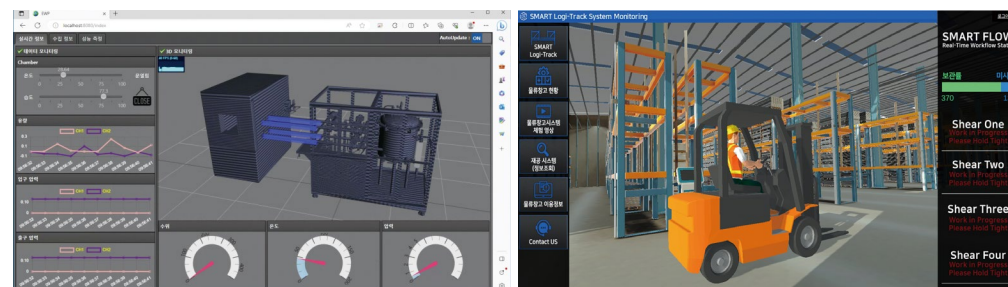
## Company Overview

### Technology that understands the field, ICT that connects manufacturing

- Anytoy Co., Ltd. is a specialized manufacturing convergence ICT company that develops and demonstrates robot automation process systems and manufacturing ICT solutions based on automation technologies accumulated in the aerospace, automotive, and robotics industries. We strive to improve operational efficiency at manufacturing sites and contribute to the establishment of an industrial ecosystem capable of data-driven decision-making by providing digital transformation solutions that simultaneously enhance the visibility and operational efficiency of manufacturing and logistics processes through the combination of smart equipment, controllers, robot integration technologies, and field data-based software.

## Core Technologies

- Robot Automation Process System Development Technology:** Enables the design and control of automated processes by linking robots, equipment, and processes.
- Manufacturing ICT-based Data Collection and Monitoring Technology:** Collects and visualizes process, equipment, and robot data in real time.
- Digital Twin-linked Process Operation Technology:** Supports process optimization by implementing actual processes in a virtual environment.
- Smart Factory-linked Scalable Platform Technology:** Builds a manufacturing ICT platform that can integrate with existing systems such as MES and WMS.



## History

- August 2023** • Certification as an Innovative SME (INNO-BIZ)
- June** • Commendation for the Development of the Software Development Industry (No. 2023-20), Gyeongnam Regional Office of SMEs and Startups
- February 2022** • Commendation for Commercialization in the Regulatory Free Zone Challenge (No. 2022-3266)
- November 2020** • Designation as a 5G Regulatory Free Zone Operator
- August 2019** • Development of Reliability Testers for Vehicle Parts
- November 2018** • Commendation from the Minister of Science and ICT (No. 26065)
- September** • ISO 9001:2015 Quality Management System Certification  
• Development of 60-ton Powder Molding Servo Press (MSH-60)
- June** • Relocation of Research Institute/Factory
- September 2016** • Commendation from the Head of the Gyeongnam Regional Office of SMEs and Startups (No. 2016-20)
- May** • Relocation of Affiliated Research Institute (Busan → Gyeongnam)
- November 2013** • Establishment of Affiliated Research Institute (Busan)
- October** • Relocation of Headquarters (Busan → Gyeongnam)
- July 2012** • Venture Enterprise Confirmation (No.: 20120106679)  
• Incorporation

# INFOIN

# INFOIN

**Address** Head Office in Seoul INFOIN Building, 11-10 Nambusunhwan-ro 337ga-gil, Seocho-gu, Seoul  
 Branch in Sacheon 2F, INFOIN Building, 50-53 Oksan-ro, Jeongdong-myeon, Sacheon-si, Gyeongsangnam-do  
**CEO** Jae-won Jung

**E-mail** infoin@theinfoin.com  
**Main Number** +82-2-599-1601  
**Homepage** www.in4in.com  
**Industry** Information and Communications  
**Business** Software Development and Supply

## Company Overview

- Since its establishment in 2015, INFOIN Co., Ltd. has leveraged its software development and system integration (SI) capabilities in both the private and public sectors to build and deliver photorealistic 3D-based digital twin platforms and perform 3D visualization of manufacturing metaverse factories. In the aviation industrial complex project, the company visualizes logistics, production, and delivery data from partner companies through the SRM portal and supports decision-making using AI chatbots and Early Warning functions. Also, based on its track record in developing digital twin-based integrated robot control systems, the company is expanding its integrated monitoring capabilities for on-site operations.

## Core Technologies

- **LightTwin™**
  - A web-based digital twin platform integrating photorealistic 3D and IoT
  - Construction of photorealistic high-resolution 3D models (Drone/LiDAR Reality Capture)
  - Lightweight browser-only interface (No installation required · No high system specifications required)
  - Real-time synchronization of IoT sensor data and visualization of status/alerts
  - Real-time visualization of equipment and robot operating status (Operation · Stop · Movement Paths)
  - AI-based anomaly prediction and analysis (Early Warning)
  - Space-based simulation + Digital Twin Dashboard



## History

- September 2025**
  - Establishment of Digital Twin for Coffee Delivery Robots at Sejong Special Self-Governing City Hall
  - Establishment of Metaverse Platform at Kangbuk Samsung Hospital
- April**
  - Signing of MOU for "AI-based Robot Convergence Cooperation" with Twinny, a Specialist in Autonomous Mobile Robots
- March**
  - Establishment of Metaverse Manufacturing Experience Service
- January**
  - Establishment of Digital Twin System for LNG Storage Tanks at Korea Gas Technology Corporation
- November 2024**
  - Signing of MOU for "Business through Advanced Technology in the Non-Destructive Testing Field" with DeepEye, a Specialist in Non-Destructive Testing
- September**
  - Selected as Supplier for POSCO's Large-Medium-Small Business Win-Win Smart Factory Construction Project
- August**
  - Selected for Korea Robot Industry Association's Large-Scale Convergence Robot Demonstration Project
- April**
  - Establishment of Monitoring System for Jeju Hamdeok Hydrogen Base at Korea Gas Technology Corporation
- January**
  - Signing of MOU for "Implementation of AI Manufacturing Smart Platform" with SBT Global, a Solution Development and Consulting Firm
- November 2023**
  - Attracting Investment for Fine Besteel Co., Ltd., a Listed Affiliate of Fine Group
- October**
  - Launch of Manufacturing-based LightTwin™
- June**
  - Selection of National Project for Metaverse Platform at Aviation Industrial Complex
  - Selection of National Project for Development of Digital Twin-based Mobility Service and Policy Test Platform in Sejong City
- April**
  - Development of Medical Technology Based on Metaverse-based Virtual Patients and Virtual Hospitals at Samsung Seoul Hospital Selection of national projects

# ZENIA



**Address** 9 Gomjeol-gil 17beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do  
**CEO** Jeong-seok Lee  
**E-mail** zenia@zeniaelec.com  
**Industry** Manufacture

**Main Number** +82-55-277-2962  
**Homepage** www.zeniaelec.com  
**Business** Smart sensors, measuring equipment, monitoring

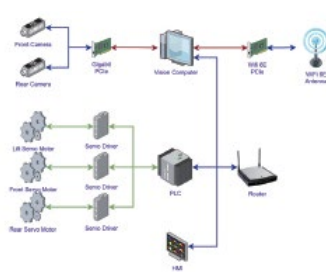
## Company Overview

### Designing the Future of Industry with Technology That Understands the Field

- ZENIA is a technology company that started with industrial electronics and sensor technology in 2014 and has grown into a specialized smart manufacturing enterprise following its incorporation in 2020.
- With a management philosophy of creativity, challenge, and innovation, ZENIA develops intelligent technologies that connect complex physical phenomena and process data in industrial sites. By combining sensors, vision, AI, and edge computing, the company digitizes equipment and processes, enabling customers to simultaneously secure quality, productivity, and stability. ZENIA's vision is to go beyond simple automation and realize a "Leading Factory" where AI guides the process.

## Core Technologies

- ZENIA has smart sensing technology that integrates vibration, pressure, temperature, current, and vision data, along with edge-based real-time data processing, AI-based anomaly detection and defect prediction, industrial vision inspection, and process digital twin analysis. Through these capabilities, the company holds core technologies that enable it to provide an integrated intelligent manufacturing platform capable of simultaneously diagnosing equipment status, predicting quality, and optimizing processes.



## History

- 2025** • Regulatory Special Zone Project (Hydrogen Mobility Demonstration)
- 2024** • Relocation of ZENIA Co., Ltd. to New Headquarters (83-3, Seongju-dong)
- MSIT - Global Manufacturing Convergence SW Demonstration Project
- 2023** • Gyeongnam Technopark Aerospace Industrial Complex Metaverse Business Collaboration Platform Project
- 2022** • LG Display - Development and Delivery of Thermal Imaging Monitoring System
- 2021** • Gyeongnam Technopark - Gyeongnam SW Convergence Cluster 2.0 Project
- Operation of Gyeongnam SOS Lab and SW Service Development Project
- November 2020** • MSIT - Gyeongnam 5G-based Next-Generation Smart Factory Regulatory Free Zone Project
- September** • Doosan Innovation (Data Collection Equipment, etc.)
- Patent Registration for Method of Auto-nesting Using a Smart Auto-nesting Program Based on Genetic Algorithms (Patent No. 10-2162088)
- August** • Patent Registration for Real-time Vision Inspection Method of Ball Joints for Automotive Steering Systems Using Big Data (Patent No. 10-2148192)
- July** • Incorporation of ZENIA Co., Ltd.

# JNE WORKS



**Address** #103, 10 Jeongiui-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do  
**CEO** Eui-seok Hong  
**E-mail** eshong@jneworks.com

**Main Number** +82-2-782-8661  
**Homepage** www.jneworks.com  
**Industry** Manufacturing, application software  
**Business** AI, Digital Twin

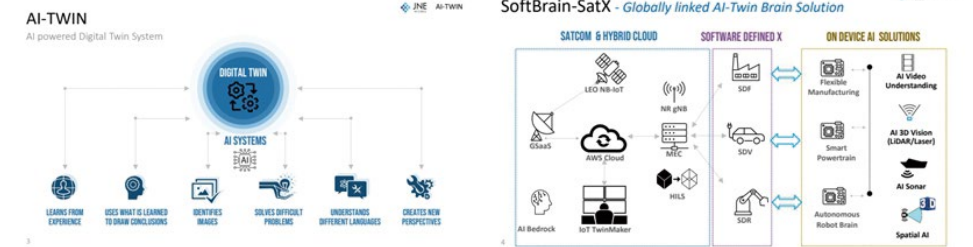
## Company Overview

### Safe Industrial Sites and a Smart Future Connected by AI-Twin

- **AI-Twin Specialist:** Established in 2019, this company specializes in artificial intelligence and digital twin systems, providing intelligent, integrated management solutions that connect the real and virtual worlds in real time
- **Proven Technological Leadership:** The company has completed technology transfer from ETRI (Electronics and Telecommunications Research Institute) and is registered as a research institute, securing technological credibility through the execution of numerous government-funded projects.
- **Highly Reliable IP Assets:** The company possesses unique technological competitiveness by holding numerous AI-related patents in core fields such as AI image recognition and real-time monitoring.

## Core Technologies

- **Intelligent AI Recognition and Analysis:** Real-time detection of risks in industrial sites using high-precision vision AI technology based on multiple patents.
- **Real-time Digital Twin:** Synchronizes complex sites with a virtual space in real time by using 3D Lidar and AIoT data.
  - Derives optimal work paths through simulation and supports data-driven decision-making.
- **Industry Convergence Platform:** Provides AI-Twin services optimized for various industries, including shipbuilding and maritime safety, smart logistics (unmanned forklifts), defense AI (underwater identification), and battery management (BaaS).
  - XR (Extended Reality) and the Metaverse By combining, we establish a remote collaboration and virtual training environment without spatial and temporal constraints.



## History

- September 2024** ● Successfully completed TIPS Project
- April** ● Participated in Hannover Messe 2024
- August 2023** ● Successfully completed Defense Venture Support Project
- April** ● Participated in Hannover Messe 2023
- March** ● Relocated Seoul Office (Gwacheon Knowledge Information Industry Center)
- December 2022** ● Acquired Venture Company Certification from Korea Technology Credit Guarantee Fund (Innovative Growth Type)
- February** ● Registered factory
- January** ● Participated in CES 2022
  - Registered branch (#301, Building 6, 21, Bongambuk 7-gil, Masanhoewon-gu, Changwon-si, Gyeongnam)
- December 2021** ● Registered as a Research Institute Enterprise by the Ministry of Science and ICT
- November** ● Capital increase (120 million KRW → 137 million KRW)
  - Relocated Head Office (Rm. 103, 10, Jeongi-gil, Seongsan-gu, Changwon-si, Gyeongnam (Seongju-dong, Technology Innovation Center))
- August** ● Defense Venture Partner Company
- July** ● Capital Increase (7 million KRW → 120 million KRW)
- May** ● Patent Registration: Crane Collaborative Work Training System Using Virtual Reality for Safety Accident Prevention
- February** ● Established an affiliated research institute
- January** ● Addition of Business Category (R&D)
  - Related head office (#301, Building 6, 21, Bongambuk 7-gil, Masanhoewon-gu, Changwon-si, Gyeongnam (Bongam-dong, Information Industry Promotion Headquarters, Gyeongnam Technopark))
- December 2020** ● Capital increase (20 million KRW → 70 million KRW)
- February** ● Relocated head office (46, Changwon-daero 18beon-gil, Uichang-gu, Changwon-si, Gyeongnam)
- January 2019** ● Established JNE Works Co., Ltd. (Paid-in Capital: 20 million KRW)

# KENCOA Aerospace

# KENCOA AEROSPACE

**Address** 152-44 Oegukgieop-ro, Sanam-myeon,  
Sacheon-si, Gyeongsangnam-do

**CEO** Kenneth Min-gyu Lee

**E-mail** info@kencoa.com

**Industry** Aircraft parts manufacturing

**Main Number** +82-55-855-4130

**Homepage** www.kencoa.com

**Business** Aircraft Structures, MRO,  
Drones & UAM, Space

## Company Overview

### Innovation through Integration

- Established in 2013, Kencoa Aerospace provides total solutions for the aerospace and defense industries under the slogan “Innovation through Integration.” Its vision is to become one of the top 100 global aerospace companies by 2030. It aims to serve as a pivotal pillar of the domestic industry and become a global player encompassing civil and military aircraft structures, MRO, space, UAVs, and AAMs. Under its core values of Challenge, Creativity, and Innovation, the company pursues employee growth and a just society.

## Core Technologies

- Supports competitiveness in supplying global OEMs such as Boeing and Lockheed Martin through 5-axis CNC ultra-precision machining (hard-to-machine materials and composites), integrated assembly of large structures, turnkey production (from raw materials to testing), AS9100 certified MRO (PTF modification and military aircraft maintenance), mass production of UAMs and PAVs, and the development of hybrid drones and UAVs.

## History

- March 2024** • Won KRW 60.5 Billion EMBRAER C-390 Project – EMBRAER S.A.
- December 2023** • Selected as an Excellent Workplace Innovation Enterprise in 2023 – Ministry of Employment and Labor
- October** • Recognized for Contribution to the Development of the Aerospace Industry – Ministry of Trade, Industry and Energy
- April** • Designated as a Global Strong SME 1000+ – Ministry of SMEs and Startups

- October 2021** • Won a KRW 121.3 Billion Order for Mass Production of Large Frame Shell Structures for STEA AIRBUS P2F (Cargo Plane Conversion) – ST ENGINEERING
- May** • Selected as one of the “National Representative 1000 Innovative Enterprises”
- February** • Kencoa Aerospace LLC Registers Blue Origin Vendor Code and Wins Engine-Related Business Orders
- Participated in Carbon Material Alliance in PAV Sector
- August 2020** • Kencoa Aerospace LLC Wins Boeing SLS (Space Launch System) Order
- July** • Selected as a Top Job Creation Enterprise in Korea – President Moon Jae-in
- May** • Designated as a Global Strong SME – Ministry of SMEs and Startups
- April** • Won a KRW 262.9 billion Order for the STEA AIRBUS P2F (Cargo Plane Conversion) Project – ST ENGINEERING AEROSPACE LTD.
- March** • Listed on KOSDAQ

# PCN



**Address** PCN Building, 146 Hakdong-ro, Gangnam-gu, Seoul  
**CEO** Gwang-heon Song  
**E-mail** master@pcninc.co.kr  
**Industry** IT

**Main Number** +82-2-565-7740  
**Homepage** www.pcninc.co.kr  
**Business** Metaverse, XR, AI, physical AI

## Company Overview

PCN is a Digital Value Service company that supports customer business success in the digital environment based on knowledge, experience, and networks.

- As an online business partner for various companies and entrepreneurs, PCN achieves steady growth alongside its clients. Field experts equipped with comprehensive technical skills and know-how realize the value that inspires customers as business partners. Composed of numerous mid-to-senior personnel with a deep understanding of the online environment and business, and comprised of talents possessing diverse specialized skills, PCN successfully leads the business. As a digital value service company focused on customer satisfaction, talent happiness, and value creation, we aim to help customers succeed and increase the value of the world.

## Core Technologies

- MetaPlusOne is a metaverse platform specialized for the industrial, event, and public sectors, built by integrating the XR, digital twin, and cloud streaming technologies owned by PCN. It precisely replicates real spaces, facilities, and industrial complexes in 3D virtual environments and links various data and systems to provide an environment that enables practical operations, collaboration, and decision-making beyond simple virtual exhibitions.
- MetaPlusOne is powered by lightweight 3D rendering technology capable of processing large-scale spaces and objects in real time, and by a cloud-based streaming architecture that supports multi-platform access across web, mobile, and XR devices. This provides stable connectivity and immersive experiences without restrictions on the user environment, and supports simultaneous access and interaction for multiple users.

- By integrating user-avatar-based meeting functions with data visualization, information retrieval, and content management capabilities linked to external systems, it supports various application scenarios, such as industrial complex promotion, event management, collaborative meetings, control, and training.
- As a metaverse platform with scalability and versatility, it provides digital space management technology applicable to the aviation, manufacturing, and public sectors.



CEO Gwang-heon Song



PCN Solution OASIS-X

A project using PCN's platform

## History

- November 2025** • OASIS Solution, selected for Global ACX Transcendence Award
- September** • Patent application for method and system for user emotion interaction based on non-verbal elements for augmented reality,  
Patent application for motion-based method and system for user emotion interaction
- December 2024** • Patent application for big data management method and device for causal relationship inference
- August** • Patent application for landmark recognition method using AI training data,  
Patent application for method for constructing AI training data
- May** • Selected as a 'Small Giant' by the Ministry of Employment and Labor
- November 2023** • Selected as a Hi Seoul Company
- September** • Patent application filed for "Method and Device for Generating and Distributing AI-Based Defect Detection Models Customized for Manufacturing Environments"  
• Acquired Grade 1 GS Certification for PCN OASIS APIM
- June** • Filed patent application for "Big Data Augmented Analysis Profiling System"  
• Received the Public Sector SW AWARD for OASIS Solution
- December 2022** • Minister of Culture, Sports and Tourism Award at the Korea Digital Management Innovation Awards
- October** • Red Dot Design Award, Brand Communication Category
- August** • Relocated to PCN New Headquarters (PCN Building, 146 Hakdong-ro)
- January** • Opened Gallery Art Insight
- December 2021** • Prime Minister's Commendation (Promotion and Development of the Software Industry)  
• Minister of the Interior and Safety Commendation (Informatization Development)
- November** • Grand Prize at the 6th 3D Printing BIZCON Competition (Cultural Heritage Administration)  
• Minister of the Interior and Safety Commendation (Promotion of Government Innovation)
- September** • PCN Headquarters Relocation to PCN Building (33 Eonju-ro 135-gil)
- January** • Acquired Grade 1 GS Certification for PCN E-SEARCH v1.0
- June 2020** • Certified as a Family-Friendly Company by the Ministry of Gender Equality and Family, Designated as a "Great Place to Work" by the Korea Chamber of Commerce and Industry Selected
- February** • Acquired Grade 1 GS Certification for Kiss OASIS v1.2

## Korea Testing Laboratory

**ktil** 한국산업기술시험원

**Address** 10 Chungui-ro, Jinju-si, Gyeongsangnam-do  
**CEO** -  
**E-mail** yhju@ktil.re.kr  
**Industry** Test and evaluation service

**Main Number** +82-80-808-0114  
**Homepage** www.ktil.re.kr  
**Business** AI, IT, Engineering

## Company Overview

"Korea Trust Leader" - Trusted by Nation and Customers

**KTL Mission & Vision**  
 미션과 비전

**미션**  
 시험인증과 기술지원을 통해 국가의 산업경쟁력 및 국민의 삶의 질 향상

**비전**  
 Beyond Korea No.1+ 국민과 함께 성장하는 국가대표 시험인증기관 KTL

**전략방향**

시험인증 미래사업 리딩	우주항공, 디지털 전환, 미래 모빌리티, 탄소중립	최고의 전문인재	전문성 · 책임감 · 기술력 · Top Class
업이중심 공공가치 창출 강화	인종체계 강화, 국민 안전 환경, 동반성장	발전하는 혁신인재	혁신성장 · 리더십 · 열정 · 적극성
KTL형 ESG 경영체계 내재화	ESG(환경·사회·지배구조) 분야 사업 및 관리 고도화	상생하는 책임인재	소통 · 상호협력 · 실천 · 신뢰구축
경영관리체계 혁신	Work Place 혁신, 소통 협력 문화 정착	최고의 재무건전성	기업신용평가등급 AAA 등급 지속 획득

**TRUST**

제품의 가치를 더하는 기술 신뢰를 높이는 힘

TOP 최고 기술, Responsible 주인의식, U & I 상호협력, Sustainable 미래지향, Transparent 법과원칙

## Core Technologies

- **System Engineering Tailoring Technology**
  - Tailoring technology for the ISO/IEC/IEEE 15288 and ISO/IEC 29110 project application
  - Aims for effective application by tailoring standard documents to suit project characteristics
  - Establishment of a quality management system through system engineering tailoring
- **Project Management Support Technology**
  - Schedule, risk, traceability, deliverables, etc., managing technology
  - Supports the development and creation of various management tools



# Korea Aerospace Industries Association(KAIA)



**Address** KAIA Building, 26 Daeheung-ro, Mapo-gu, Seoul  
**CEO** Goo-yeong Kang  
**E-mail** -  
**Industry** Association (Business Registration No. 116-82-05039)

**Main Number** +82-2-761-1101  
**Homepage** www.aerospace.or.kr  
**Business** Education, Research and Development, and Services

## Company Overview

### Aerospace Industry Partner

- This association aims to contribute to the development of the national economy by promoting the common interests of its members based on the sound development of the aerospace industry and mutual cooperation among member companies, through the efficient execution of projects for the promotion of the aerospace industry and active participation in the formulation and implementation of policies regarding the aerospace industry.



## History

- April 2025** • Changed association name (Korea Aerospace Industry Promotion Association → Korea Aerospace Industry Association)
- April** • Change of Supervising Ministry (Ministry of Trade, Industry and Energy → Aerospace Agency)
- January 2024** • Held the 2024 Aerospace Professionals New Year's Reception
- October 2023** • Hosted the Seoul International Aerospace & Defense Exhibition 2023 (Seoul ADEX 2023)
- July** • Korea and Poland signed MOU to Strengthen Aerospace Industry Cooperation (Korea Aerospace Industry Promotion Association - Poland Aviation Valley - Polish Aviation Association)

- March** • Inauguration of the 14th Executive Vice President, Min-seok Kim
- October 2022** • Held the Association's 30th Anniversary Ceremony
- October 2021** • Hosted the Seoul International Aerospace & Defense Exhibition 2021 (ADEX 2021)
- March** • Established the 3rd Basic Plan for Aviation Industry Development (2021-2030)
- March 2017** • Established Korea Surface Treatment Co., Ltd. and Completion of Aviation Logistics Center (Sacheon City)
- September 2016** • Designated as the Dedicated Agency for Offset Trade by the Ministry of Trade, Industry and Energy
- March** • Established the Aerospace Quality Group (KAQG)
- April 2015** • Opened Gyeongnam Branch (close support for member companies and
- April 2014** • commencement of support projects for aviation industry specialized complexes)
- January 2010** • Opened Light Civil Helicopter (LCH) Development Secretariat
- January** • Supported the establishment of the 2nd Basic Plan for Aviation Industry Development
- January 2009** • Established Aerospace Talent Training Institute
- March 2006** • Commenced feasibility study for Korea-Airbus medium aircraft development
- October 2002** • Supported (65 billion KRW) for international joint civil aircraft development projects
- August 2000** • Hosted the 1st Robot Aircraft (Drone) Competition (21st as of 2023)
- April 1999** • Commenced Aerospace Parts Technology Development Project and established Research Association
- October 1996** • Supported the establishment of the 1st Basic Plan for Aerospace Industry Development
- January 1995** • Hosted the 1st Seoul Air Show (14th as of 2023)
- January 1993** • Operated the Korea-China Medium Aircraft Business Association Secretariat  
Commenced import approval services for aircraft and related parts
- September 1992** • Established the Korea Aerospace Industry Promotion Association

# Aviation Campus of KOREA POLYTECHNIC



**Address** 46 Daehak-gil, Sacheon-si, Gyeongsangnam-do  
**CEO** Dean Yeong-hui Won  
**E-mail** picajo@kyungnam.ac.kr  
**Industry** National Technical Education University

**Main Number** +82-55-830-3500  
**Homepage** www.kopo.ac.kr  
**Business** University (Education, Service)

## School Overview

**Mission** To contribute to improving the quality of life for the people and developing national industries through lifelong vocational education

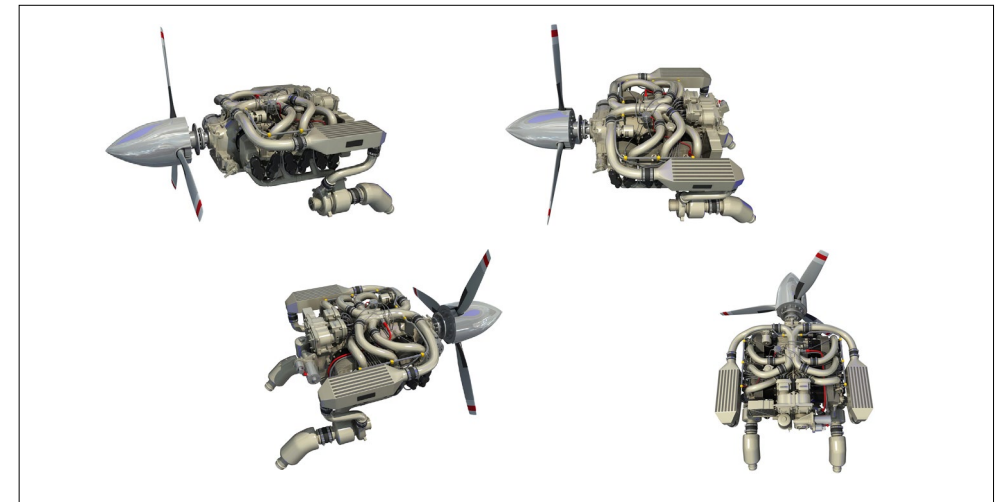
**Vision** A job-focused university connecting the people and the future through the great transformation of K-SHIFT vocational education

- Korea Polytechnic University is a lifelong vocational education university open to anyone who wishes to work 'anyone, anytime, anywhere,' and is a public vocational education institution under the Ministry of Employment and Labor.
- Since the launch of the National Central Vocational Training Center in 1968, it has trained over 3 million industrial workers over the past half-century, driving Korea's industrialization and economic development while serving as a job safety net for diverse social strata.
- Korea Polytechnic University is constantly innovating to lead the future of labor and education and to actively respond to public demands for a new K-vocational education paradigm. Through highly practical facilities and equipment covering everything from foundational and root industries to cutting-edge and new industries, excellent faculty with extensive practical experience, systematic curricula, and continuous educational innovation, it is cultivating technical talent desired by businesses and local communities.
- The Aviation Campus focuses on aerospace technology, a cutting-edge field that leads science and technology, and produces creative talent equipped with the competencies, qualities, enterprising spirit, and character necessary for the 21st-century aerospace era.

## Core Technologies

- **Validation of 3D Metadata for Aviation Components in the Metaverse**
  - Using actual small aircraft engines (reciprocating engines), the metadata for 3D virtual twin/digital twin geometries required for developing information terminal interfaces and user interactions for field operators (users) is validated

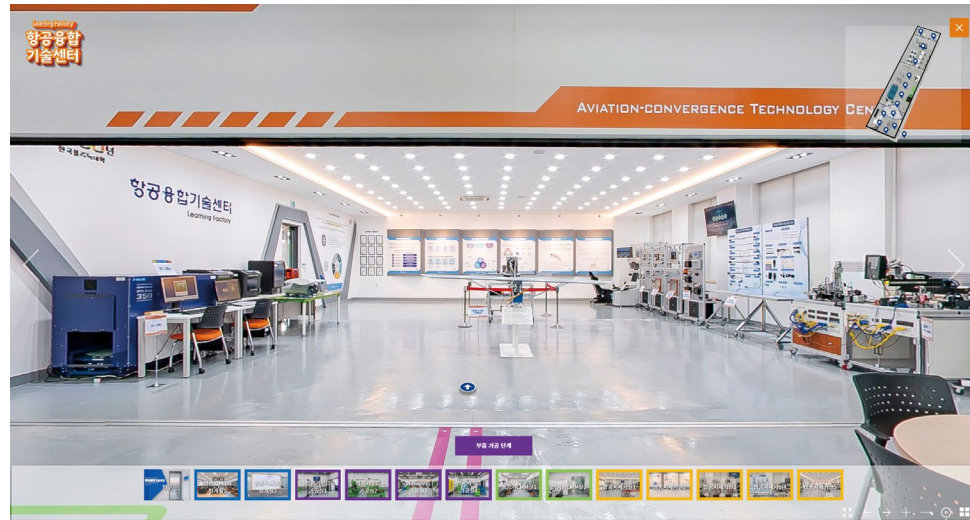
- KOREA POLYTECHNIC has the technology to construct vector geometries based on 3D metadata using a 3D scanner under conditions where drawings are not available
- The actual geometries of the Lycoming O-360 reciprocating engine is constructed using 3D CAD-based virtual twin/digital twin geometries via a 3D scanner



- **Development of a Real-World Calibration Solution for Metaverse 3D Geometry Information and a User Interaction Platform for Smart Glasses Education in the Aviation Sector**

- Development of a standard smart glasses user interaction platform optimized for aircraft manufacturing production environments using a university-owned mobile VR demonstration kit
- Development of disassembly and assembly scenarios for small aircraft reciprocating engines for a 3D experience virtual twin
- Development of interaction procedures for content (small aircraft reciprocating engines for a 3D experience virtual twin)





## History

- August 2025** • Selected and Operated as Regional Learning Centers for the Ministry of Justice's Social Integration Program
- March** • Appointed Sacheon Mayor Dong-sik Park as Honorary Dean, opened Sacheon Foreign Worker Support Center
- August 2024** • Inauguration of the 9th Dean, Young-hwi Won
- November 2020** • Opening Ceremony of the Aviation Convergence Technology Center
- December 2015** • Dean Il-hyun Kwon receives Grand Prize for Educational Donation (Ministry of Education)
- December 2013** • Grand Prize for Educational Donation (Ministry of Education)
- November** • Completed the 4th Engineering Building and 2nd Dormitory
- March 2012** • Inauguration of the 5th Dean, Il-hyun Kwon
- March** • Changed name (Korea Polytechnic Aviation College → Korea Polytechnic University Aviation Campus)
- March 2009** • Inauguration of the 4th Dean, Ki-moon Song
- May 2006** • Selected as the Best Polytechnic College in the Nation
- March** • Changed name (Aviation Technical College → Korea Polytechnic Aviation College)
- December 2004** • Selected as the Best College in the Nationwide Technical College Education Evaluation
- March** • Inauguration of the 2nd Dean, Young-hee Lee
- December 2003** • Established the Aviation Maintenance Department
- February** • 1st Graduation Ceremony for Graduates

- December 2001** • Approval of Aviation Maintenance Technician License Course (Ministry of Construction and Transportation)
- March** • Admission of the 1st Freshman Class, Establishment of the Industrial Technology Research Institute
- December 2000** • Inauguration of the First Dean, Shin Gil-soo
- November** • Approval of the establishment of the Aviation Technical College (Ministry of Education and Human Resources Development)

## KOREA AEROSPACE INDUSTRIES



**Address** Korea Aerospace Industries, Ltd. 78 Gongdan 1-ro, Sanam-myeon, Sacheon-si, Gyeongsangnam-do

**CEO** Jae-byeong Cha

**E-mail** -

**Industry** Manufacture

**Main Number** +82-55-851-1000

**Homepage** www.koreaaero.com

**Business** Finished aircraft, airframe structure, UAV, satellite, launch vehicle, performance upgrade/MRO

### Company Overview

Becoming a global company that earns the trust of customers with the best technology and products and fulfills its social responsibilities

- Established in 1999 as a merged entity formed through the in-kind contribution of the aircraft businesses of three major conglomerates (Samsung, Hyundai, and Daewoo), KAI currently engages in businesses related to fixed-wing aircraft, rotary-wing aircraft, unmanned aerial vehicles (UAVs), aircraft performance upgrades/MRO, airframe structures, satellites/launch vehicles, and training systems.

Through this, KAI has successfully upgraded aircraft such as the KT-1 Basic Trainer, T-50 Advanced Trainer, KUH (Surion) Multi-purpose Helicopter, UXH/LCH Light Armed/Civilian Helicopter, and Songolmae Unmanned Reconnaissance Aircraft, taking responsibility for South Korea's national security and air power. The company is on the verge of mass production and deployment of the KF-21 fighter jet, a key future air security asset.

Also, KAI has participated in all domestic satellite development projects and is expanding its business scope into space by performing the total assembly of the Korean Launch Vehicle system.

To expand its aviation business, KAI is also developing next-generation UAV platforms, future Airborne Air Vehicles (AAVs), and AI pilots. Under the vision of 'Global KAI Beyond Aerospace,' KAI conducts business related to fixed-wing military aircraft, rotary-wing military and civilian aircraft, unmanned aerial vehicles (UAVs), aircraft upgrades/MRO, airframe structures, satellites/launch vehicles, and training systems. Based on this foundation, having gone through a growth phase, the company recorded sales of 3.6 trillion KRW in 2024, establishing itself as Korea's leading integrated aerospace systems manufacturer. Backed by solid export performance, the company continues to expand its order backlog and sales volume.

Along with its existing core businesses, KAI will advance toward a target of KRW 40 trillion in sales by 2050 through the pursuit of growth engine businesses such as Airborne Aircraft Vehicles (AAVs), Manned/Unmanned Hybrid Systems, UAVs, and

satellites, as well as future businesses represented by next-generation aircraft, space solutions, and future software.

### Core Technologies

- As Korea's leading aerospace systems integrator, KAI has "Aircraft System Integration Capabilities" that enable the realization of diverse performance capabilities and solutions desired by customers by seamlessly connecting components and software.
- Development Capabilities:** Secured development capabilities across the entire aerospace sector, extending from fixed-wing, rotary-wing, and unmanned aerial vehicles (UAVs) to satellites and launch vehicles
- Production Capabilities:** KAI has the technology and infrastructure capable of producing state-of-the-art aircraft, including composite processing, structural fabrication, final assembly, and quality control
- Comprehensive Logistics Support Capabilities:** KAI established a customer-centric operational environment and provides rapid follow-up support throughout the aircraft lifecycle



## History

- December 2025**
  - Signed contract for Philippines FA-50 Performance Improvement Project
  - Signed contract for KF-21 System Integration Prototype Development of Short-Range Air-to-Air Missile-II System
- November**
  - Signed contract for 2nd Production Batch of Medical Evacuation Helicopters
- August**
  - Signed contract for B787 FTE M1 and M3 Kits
- June**
  - Signed contract for Additional 20 KF-21 Units
  - Signed contract for Additional 12 FA-50s for the Philippines
- May**
  - Commenced Final Assembly for KF-21 Production Aircraft
- March**
  - Signed contract for Indonesian Air Force KT-1B Airframe Life Extension Project
- January**
  - Successful first flight of Marine Corps Amphibious Attack Helicopter Prototype
- December 2024**
  - Delivered First Production Unit Mirion (LAH-1)
  - Signed contract for Surion (KUH-1) Export to Iraq
  - Signed contract for Extension of B737MAX Tail Structure Supply
- November**
  - KF-21 Achieves 1,000 Accident-Free Sorties
- June**
  - Signed contract for First Production of KF-21
  - Delivered Final Surion (KUH-1) Unit Completed
- April**
  - Signed contract for Supply of eVTOL Components with Eve
  - Successful launch of SAR Satellite No. 1
- December 2023**
  - Signed 2nd mass production contract for Light Armed Helicopters (LAH)
  - KAI-SpaceX Signed launch contract for Next-Generation Medium Satellite No. 2
- November**
  - Signed contract with Central 119 Rescue Headquarters for 2 Surion firefighting helicopters
  - Acquired CMMI Level 5 certification (Avionics)
- October**
  - KAI-Saudi Arabia Space Agency (SSA) signed MOU for space sector
- September**
  - Signed supply contract for B787 and B777X components
- May**
  - KAI's key contributions, including successful 3rd Nuriho launch and total system assembly
  - Final contract signed for 18 FA-50s with Malaysia
- January**
  - Successful supersonic flight of KF-21 Boramae

## LG Electronics



**Address** LG Twin Tower, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul

**CEO** Jae-cheol Lyu

**E-mail** -

**Industry** Manufacture of Telecommunication and Broadcasting Apparatuses

**Main Number** +82-2-3777-1114

**Homepage** www.lge.co.kr

**Business** Manufacturing of TVs (Smart TVs, S/W Platforms), Home Appliances (Refrigerators, Washing Machines, Air Conditioners), Automotive Components (AVN, Telematics, Powertrains for Electric Vehicles), IT (Monitors, PCs), and Information Displays

## Company Overview

### Life's Good

- LG WAY, LG's unique corporate culture, aims to achieve the vision of "LG, the No. 1" by putting into practice its management philosophies of "creating value for customers" and "management based on respect for humanity" through the behavioral practice of Jeong-Do (ethical) management.

## Core Technologies

### Representative Core Technologies

- **AI DD Motor:** The AI DD motor applied to washing machines and dryers analyzes the weight, humidity, and fabric type of the laundry to automatically adjust washing and drying intensity, enhancing durability, minimizing fabric damage, and increasing energy efficiency.
- **Heat Pump Appliances:** Heat pump dryers, which utilize a low-temperature dehumidification method for low energy consumption and easy installation, are recognized in the North American market for their eco-friendliness and technological prowess.
- **Automotive Powertrains:** In the field of automotive components-including motors, infotainment systems, and battery management systems essential for future mobility such as electric and hydrogen vehicles—we supply parts to eight out of ten global automakers, focusing on software integration and enhanced safety.
- **Characteristics of Technological Innovation**
  - **AI & Smart Control:** The application of AI-based automation technology in washing machines, dryers, and home appliances is significantly improving user convenience and efficiency.

- **Expansion of Automotive Business:** We are establishing ourselves as a future growth engine in the electric vehicle and autonomous vehicle parts markets through partnerships with global automakers and the construction of a software-centric mobility ecosystem.



## History

- 2025** • Increased share of platform and service revenue → Shift in perception from a hardware-centric company to a service-oriented enterprise
- 2024** • AI and high-energy-efficiency home appliances → Expansion of products meeting international energy efficiency and environmental regulatory standards
  - Growth in HVAC (B2B Heating & Cooling) business → Expansion of global market share in commercial and industrial sectors
  - Established a stable annual profit structure in the automotive electronics business → External verification of business sustainability
  - Recorded annual revenue in the KRW 87 trillion range, achieving the highest revenue in the company's history
- 2023** • Received multiple major global design awards (RED DOT, iF, etc.)
  - Expanded webOS-based platform business → Expansion of external content and advertising partners within the global TV OS ecosystem
  - Automotive electronics business turns profitable → Market evaluation as a turnaround achievement for a long-term loss-making business
  - Annual revenue surpasses 82 trillion won → Announced record-high revenue performance
- 2022** • Expanded orders in the Vehicle Solutions (VS) business → Disclosed large order backlogs from global automakers
  - Expanded premium home appliance sales → Maintaining a top-tier market share in the global home appliance market
- 2021** • Officially announced withdrawal from the smartphone business → Evaluated by major global media and markets as a case of strategic restructuring

## AI-Integrated Metaverse-Based Maintenance Operations Platform for High-Speed Rail Vehicles

### NaraInformation

Gyeongbuk ICT Convergence Industry Promotion Association,  
Dandy Soft, YMX

#### Content Overview

- ▶ We built this platform to establish a metaverse-based maintenance operating environment, streamlining light and heavy maintenance for high-speed rail vehicles and facilitating digital transformation.
- ▶ We modeled the maintenance buildings, tracks, and vehicle structures of the actual Capital Region Vehicle Maintenance Depot, virtually in 3D, based on drawings and real-world images. By visualizing maintenance processes, vehicle status, and failure information in real time, we recreated a work environment identical to the actual site. By applying integrated maintenance data management and AI-based component recognition and abnormal sound detection functions, we secured visibility in maintenance process management and implemented a digital maintenance platform that supports operational efficiency and data-driven decision-making.

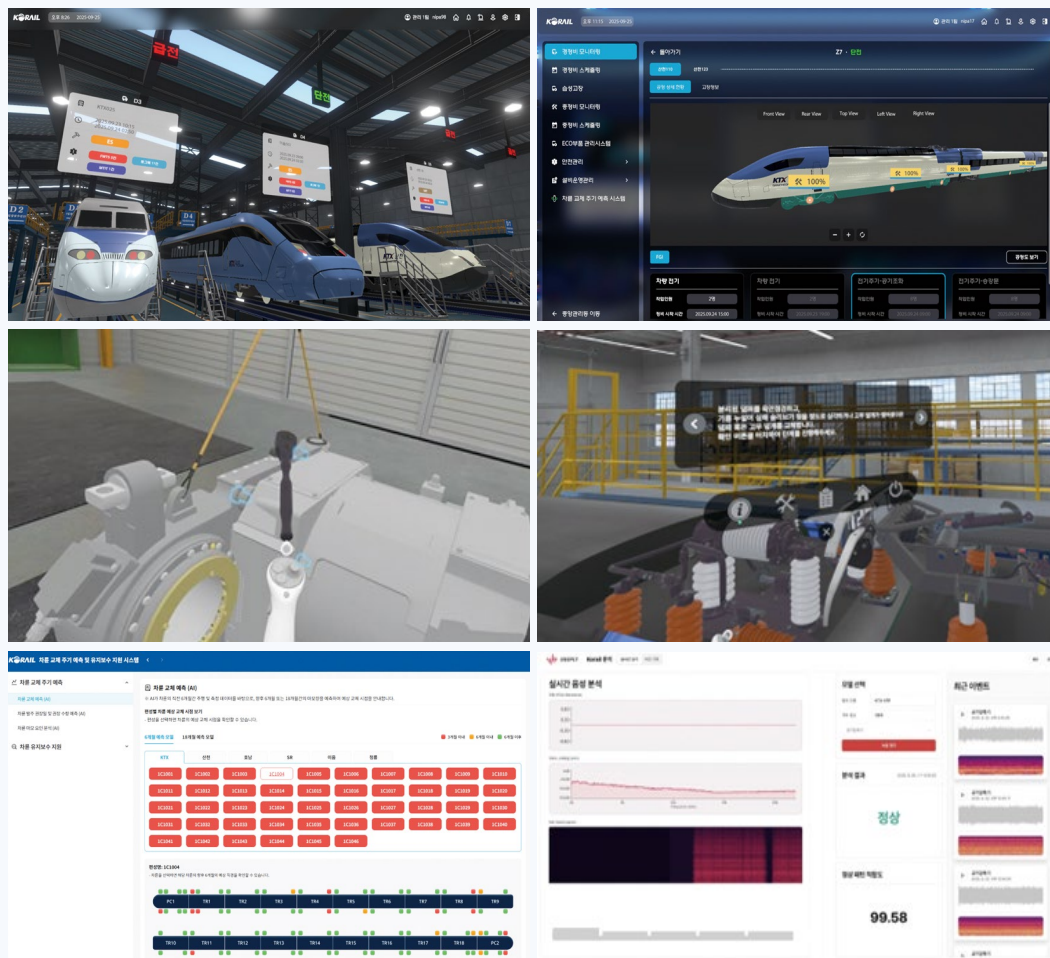
#### Applied Technologies

- ▶ **3D Metaverse Platform**
- ▶ **3D modeling and digital twin implementation technology based on drawings and real-world images**
- ▶ **Data integration technology linked to maintenance portals**
- ▶ **Field-oriented AI technologies such as anomaly detection (AutoEncoder), wheel prediction (LSTM time series), and part recognition (ResNet18)**
- ▶ **Integrated dashboard and real-time process monitoring technology**

#### Business Direction

- **Expansion in the Railway Sector:** The metaverse maintenance platform, verified through demonstrations by demand agencies, can be expanded and deployed to other maintenance units and regional depots via a remodeling approach
- **Modular Advancement:** Since operation, monitoring, and AI functions are modular, phased expansion into follow-up projects is possible, including digital twin advancement, enhanced capabilities to the level of complete replacement for field operations, and strengthened safety management

- **Expansion Budget Model:** Efficient management of railway rolling stock nationwide via a common platform is promoted through expansion to other depots
- **Private Sector Expansion:** Based on railway demonstration results, collaboration can be pursued by horizontally disseminating digital twin, XR, and AI technologies to manufacturing/smart factories, urban rail, and safety/education
- **AI Function Advancement:** AI for anomaly detection, wheel, and part recognition can be applied to predictive maintenance, parts ordering, and inventory decision-making
- **Expansion of XR Maintenance Support:** XR glasses-based 3D guidance linked to parts recognition results, support for disassembly and assembly procedures, and expansion of educational content



# NaraInformation



**Address** 81 Sambong-ro, Jongno-gu, Seoul  
(Songsu-dong, Doosan We've Pavilion)

**CEO** Young-ho Son

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**Industry** Service (Software Development and Supply)

**Main Number** +82-2-3141-7644

**Homepage** www.narainformation.com

**Business** Application Software  
Development and Supply

## Company Overview

### Without Records, No History or AI

- NaraInformation is a knowledge information and AI company that, since its establishment in 2008, has conducted over 600 public data and AI projects for approximately 180 institutions—including the National Institute of Korean Language, the National Heritage Administration, the National Archives of Korea, the Academy of Korean Studies, the Korean Studies Promotion Agency, the Korea Intelligent Information Society Agency, and the Korea Information & Communication Technology Industry Promotion Agency—centered on Korean language, history, and culture data, driven by the belief that “without records, there is no history and no AI.”
- We are expanding our eco-friendly, high-value-added business by converting paper documents and unstructured records into digital knowledge to enable XAI. This is achieved through an integrated solution for automated data preprocessing based on our proprietary technologies: the AI OCR ‘A Doc Cube’ (focused on ancient documents) and ‘NARA OCR’ (covering modern documents, including multilingual and unstructured ones), the RAG-based sLLM ‘NA-LLM’, and the modern document AI Agent ‘Juchukdol LM’.

## Core Technologies

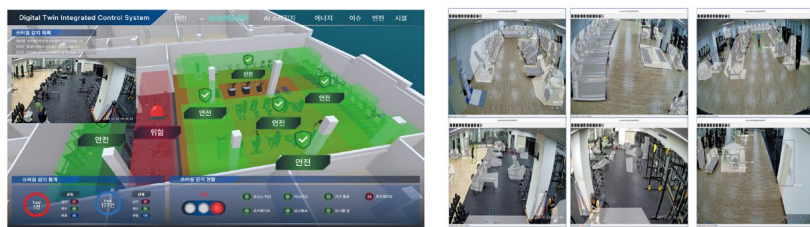
- NaraInformation has a corporate AI research institute that simultaneously develops OCR and LLM/RAG application technologies, and holds a portfolio of intellectual property rights including over 10 patents and copyrights.
  - **AI OCR:** Proprietary technology for the Ancient Document Cube (A Doc Cube), an AI OCR solution for ancient documents, and the general-purpose NARA OCR (LITE/PREMIUM) solution
  - **LLM/RAG:** NA-LLM (RAG SLLM - Knowledge Search AI). Case study: Korea Employment Agency for the Disabled chatbot
  - **AI Agent:** Cornerstone LM (Classical Research AI Agent). Currently performing Public AX Project No. 17

- **Data Processing:** Development and commercialization of automated data preprocessing solutions
- **Accessibility for the Disabled:** Promotion of IT governance accessibility standardization projects and possession of related patents. Development and commercialization of screen readers for the visually impaired are planned
- **NARA Detection AI/NARA VMS:** Video-based fall detection AI model service. Artificial intelligence technology capable of detecting falls indoors to respond to dangerous situations. Technology development and completion for application to the digital twin control system of the Sejong Government Complex gymnasium fitness center



Detection AI/NARA VMS  
영상 기반 쓰러짐 감지 AI 모델 서비스 실증

실내에서 쓰러짐을 감지하여 위험 상황에 대처할 수 있는 인공지능 기술  
- 세종청사체육관 헬스장 디지털트윈 관제시스템에 적용하기 위해 기술 개발 및 완료 -



AI Fall Detection Interface

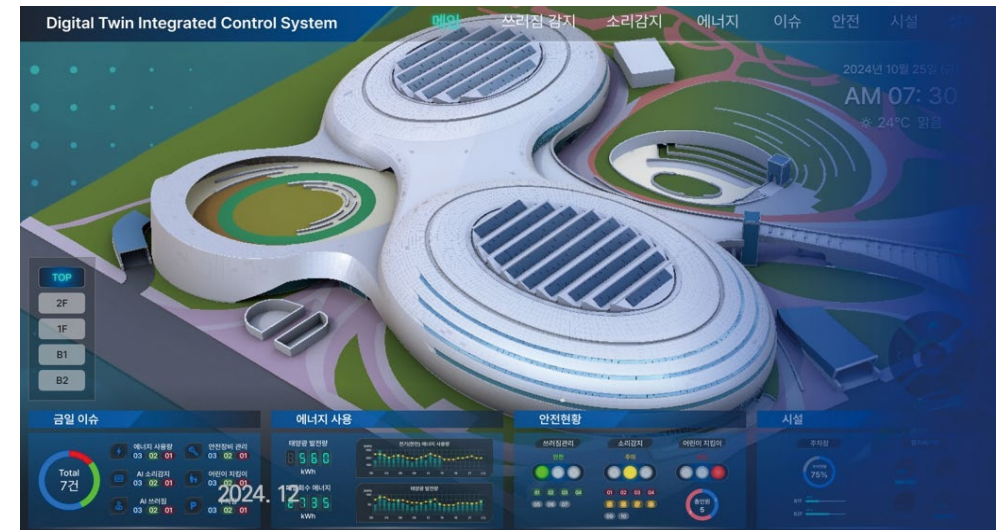
Algorithm Integration for Fall Detection



VMS-CCTV Video Management System



Digital Twin Dashboard: Gym Fall Detection Logs & Statistics



History

- November 2025**
  - Received the Korea ESG Management Grand Prize and Acquired ESG Enterprise Certification
  - Registered NARA OCR copyright
  - Received the Korea Information and Communication Technology Association President's Award at the 1st AI CHAMPION (Juchukdol LM)
- May**
  - Registered patent for a Method and System for Providing Applications by Converting a Visual-Oriented Interface Environment to a Tactile-Oriented Interface Environment
- April**
  - Registered NA-LLM trademark
- December 2024**
  - Acquired Family-Friendly Enterprise Certification
- September**
  - Acquired KOLAS Certification for Ancient Document Cube (AI OCR) v1.0
  - Registered N-Archives System copyright
- August**
  - Subsidiary: Hansoul Knowledge Information Co., Ltd., certified as a Standard Workplace for the Disabled
- July**
  - Registered patent for a Method and System for Providing Rehabilitation Online Education Content for Hearing-Impaired Patients
  - Venture Enterprise Innovation Growth Type
- May**
  - Confirmed as Technology Innovation Type SME INNO-BIZ
  - Confirmed as Small Giant
- December 2023**
  - Registered AI Surobuin copyright
- November**
  - Acquired ISO 9001 Certification
- October**
  - Acquired MAIN-BIZ Certification

- September 2023 • Article on AI-based Ancient Document Character Recognition Solution Published in an Academic Conference (International Conference on Document Analysis)
- July • Registered NARA DB Utils Program
- Developed an AI Model Capable of Customized Vocabulary Learning
- May • 3rd Place in the ICDAR Papyrus Greek Character Recognition Competition (Germany) Pattern Recognition Research Institute)
- Registered patent for Device and Method for Identifying Sentences and Phrases in Chinese Character Literature Based on CRF
- December 2022 • Registered patent for Device and Method for Extracting Polysemous Meanings Using Lexical Relationships and Glossary Graphs
- July 2021 • Registered patent for Phoneme-Based Text Search Device and Method
- January 2019 • Established affiliated research institute (Humanities AI Research Institute)
- January 2008 • Established the company

## Gyeongbuk ICT Convergence Industry Promotion Association



**Address** #201, #202, Venture Building 1, Pohang Techno Park, 394 Jigok-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do  
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**E-mail** gbict@gbict.or.kr  
**Industry** Academics, research service, training service

**Main Number** +82-54-810-7127  
**Homepage** gbict.or.kr  
**Business** Research and development, networking, workforce training, corporate support, association operation projects, etc.

### Company Overview

A New Leader Leading the Era of Digital Transformation, An ICT Innovation Hub Opening the Future of Gyeongbuk Together with Local ICT Companies

#### Vision and Mission

- **Mission:** As a private consultative body leading the ICT convergence industry and Industrial Intelligence (AX) in the Gyeongbuk region, we contribute to the innovative growth of local industries and the revitalization of the ecosystem together with local ICT companies.

#### Main Business



##### R&D

**Research, Planning Support, and Technical Support**  
 Brokerage of core ICT convergence technology transfer  
 Support for project planning activities and technology linkage  
 Support for attracting government R&D projects

##### HR Development

**ICT Professional Training**  
 Cultivating Practical Talent  
 Employment Linkage with Member Companies  
 Attracting Regional Workforce Development Projects  
 Digital Transformation Education for Socially Vulnerable Groups

##### Association Operation

**Meeting Member Companies' Needs**  
 Operating a permanent secretariat  
 Holding annual general meetings and board meetings  
 Job support for professionals  
 Publication of ICT trend reference materials

##### Infrastructure Development and Operation

**Promoting Self-Reliance through Infrastructure Development and Operation**  
 Promoting infrastructure establishment and operation related to government-commissioned projects  
 Promoting phased infrastructure establishment for the association's self-reliance

##### Network

**Activation of Information and Support Systems**  
 Support for market development and marketing  
 Holding of regular seminars  
 Linkage with other associations  
 Establishment of regional network

## History

- July 2025** • Opened K-High Tech Platform Metaverse Station (Gimcheon)
- May** • Opened Uzbekistan Office (Tashkent, Uzbekistan)
- September 2024** • Donated scholarship fund to 8 educational institutions in Gyeongsangbuk-do (KRW 3 Million per institution)
- June** • Opened Vietnam Office and EdTech Lab, and Metaverse Lab (Ho Chi Minh, Vietnam)
- Opened Southwestern SW Mirae Chaeum Center (Gyeongsan)
- December 2023** • Received Commendation from the Governor of Gyeongsangbuk-do for SW Industry Development (Group Commendation)
- May** • Inauguration of Yong-jin Choi as the 4th Association President
- June 2022** • Received Presidential Group Commendation for Merit in Information Culture
- July 2021** • Opened Gyeongbuk Digital Social Innovation Center (Andong)
- December 2020** • Opened Gyeongbuk ICT Innovation Square (Gimcheon)
- November** • Opened Baekdudaegan SW Mirae Chaeum Center (Andong)
- Opened East Sea Rim SW Mirae Chaeum Center (Pohang)
- February** • Reappointed Hee-taek Shim as the 3rd Association President
- November 2019** • Launched Official Secretariat
- January 2016** • Regular General Meeting and Inauguration of Hee-taek Shim as the 2nd Association President
- April 2015** • Regular General Meeting and Inauguration of Moo-gyeong Han as the 1st Association President
- October 2014** • Received approval for the establishment of non-profit corporation by Gyeongsangbuk-do

## Dandy Soft



**Address** 206 Venture Startup Incubation Center (Old Building), 123, Dongdae-ro, Gyeongju-si, Gyeongsangbuk-do

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**E-mail** daepyo@Dandy Soft.kr

**Industry** Information and Communications

**Main Number** +82-10-4883-3335

**Homepage** Dandy Soft.kr

**Business** Railway Safety SW Development and Supply

## Company Overview

### Creating a Safe Industrial Site through Innovation and Value Creation

- Dandy Soft is an IT company that develops smart maintenance solutions for the railway operations sector, providing automated systems through railway vehicle maintenance and data analysis.
- Safety is the foundation not only of railway sites but of all industrial sites. Dandy Soft Co., Ltd. develops solutions to prevent potential safety accidents in advance, and aims to create a happy industrial environment by introducing and improving them in meaningful ways.
- We strive for practical problem-solving through close collaboration with railway organizations. We aim to optimize maintenance and implement preventive maintenance by linking railway operation data in real time, and to improve maintenance cycles and methods based on data.
- We are working to expand railway industry safety solutions to various transportation and logistics industries by developing and applying AI and big data analysis technologies.

## Core Technologies

- **Major Core Technologies**
  - **Railway Vehicle Depot Operation Management System:** Data collection and establishment of an on-site maintenance operation environment for optimizing railway vehicle maintenance and repair processes
  - **Location-based Vehicle Management System:** Management of real-time location information and operational history of railway vehicles
  - **Railway Vehicle Operation Record Management System:** A platform for railway vehicle condition-based monitoring and predictive maintenance

● Utilization of Core Technologies

- Dandy Soft has laid the foundation to lead the digital transformation of the railway maintenance sector by leveraging the core technologies mentioned above.
- By researching and developing AI-based functions for analyzing railway vehicle maintenance data, we support the collection and analysis of data on vehicle failure patterns. This enables the optimization of maintenance cycles and the creation of a stable operating environment.
- By recording the locations of railway workers' portable terminals and collecting operational data for safety management during maintenance work, we have achieved enhanced safety and convenience for on-site workers.



Development of High-Precision Track Worker Protection System

	<b>개발 추진성과</b> <b>열차안전운행 확보</b> 시설물 정보 인공지능 데이터 (YOLOV5) <b>정확성 향상</b>	<b>선행 개발 기술의 본 아이템 활용</b> <b>철도 현장 노하우</b> 철도 데이터 수집 노하우 및 객체 검출 알고리즘은 본 아이템 핵심 기술로 활용
	<b>경량개선기여</b> 대전~제천 188.9km, 부조~과동 10.9km 등 <b>총 605.1km 현장 자체 운용중</b>	<b>비용대폭 절감</b> 위험을 동반하는 현장 데이터 수집 비용 절감
<b>"종합 개선 실적 211백만원" (2022년 10월 기준)</b>		<b>핵심 기술 개발 소요 비용 절감</b>

Intelligent Track Information System

History

- August 2025** • Selected as service provider for the construction of the No-Code Integrated Support Portal
- January** • Developed a worker protection system using Korea Augmentation Satellite System (KASS) of KORAIL Tech
- September 2023** • Selected for and carried out the development of additional route (Gyeongjeon, Jeolla, Donghae) for the train operation guidance system for SR Inc.
- August** • Selected as service provider for the advancement of the writing platform for the Korea National Institute of General Education
- July** • Selected for and developed display functions for the West Sea Line and detour routes for KORAIL
- June** • Selected for and developed the depot operation management system for KORAIL
- July 2022** • Developed the Chungcheongnam-do Data Platform
- July 2021** • Developed the Intelligent Track Construction System for KORAIL
- February 2020** • Established a dedicated R&D department
- Established Dandy Software Co., Ltd.

**YMX**



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Seongsuil-ro 4-gil, Seongdong-gu, Seoul

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**Industry** Information and Communications, Manufacture, Service

**Main Number** +82-2-465-3737

**Homepage** www.ymx.co.kr

**Business** AR, VR, MR, XR, AI

## Company Overview

### Your Meta Experience

- The solutions provided by YMX support on-site operations in large-scale industrial sites—such as plants, construction, and facility maintenance—by using 3D blueprints on mobile devices. They enable integrated management and maintenance through 3D remote collaboration and simulation in virtual spaces.

Currently, most industries face limitations to business improvement due to workforce knowledge and capabilities, as well as site-specific spatial and temporal constraints.

However, by strategically using YMX's latest AI-based solutions, Digital Twin, and 3D virtual technologies, it is possible to overcome these limitations and achieve substantial business innovation.

Moving forward, YMX will continue to provide customized solutions that improve business efficiency across various industrial sectors by rapidly deploying the latest technologies.

## Core Technologies

- MXview Solution Suite is an XR-based quality inspection and collaboration platform that integrates and manages the entire Factory Life Cycle of industrial sites through digital twins.
  - Details:**
    - MX3d-optimizer:** An engine for automatic conversion, splitting, and lightweighting of large-volume CAD/BIM data
    - MXview:** An AR/XR-based on-site quality inspection and safety management system
    - MXspace Enterprise:** A metaverse workspace supporting 3D models and document sharing and remote collaboration

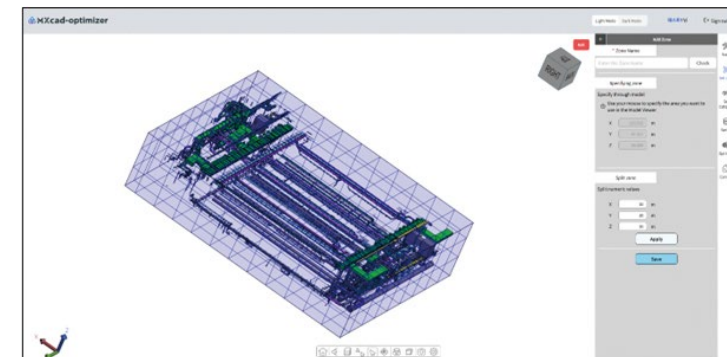
In traditional CAD-centric inspection environments, drawing inconsistencies and process delays were frequent issues. We resolve these problems through an End-to-End pipeline connecting automatic format conversion → real-time AR inspection → 3D collaboration.

- Business Model:**

A hybrid model of on-premise implementation + SaaS subscription for large enterprises and public institutions

- Core Values:**

- 50% reduction in on-site inspection time
- Cost reduction
- Global collaboration scalability



## History

- September 2025** • Launch of CAD/BEAM data optimization solution 'MXcad-optimizer'
- May** • Signing MOUs with 'Defense & AI' companies in Singapore and Malaysia
- February** • Launching educational digital twin collaboration platform 'MXcampus'
- May 2024** • Achieving TI-2 rating in TCB investment evaluation
- February** • Establishing local subsidiary YMX Singapore PTE LTD
- January** • Exhibiting at 'CES 2024' LVCC Central Hall

- January 2024 • Signing Joint Venture agreement with Singapore's YJP SURVEYORS PTE LTD
- August 2023 • Securing a total of 5.3 million SGD in Series A investment (Brick Investment, Shinhan Investment & Securities, Singapore MW Capital)
- May • Launching service linking 'One-stop' XR construction inspection solution with digital twin platform (Mxspcae)
- October 2022 • Company name changed to YMX Co., Ltd.
- July • Launch of XR-based equipment and inspection support solution 'MXatg'
- September 2021 • Launch of XR-based equipment and inspection support solution 'MXatg'
- June • Launch of BIM-based AR quality inspection solution 'MXview'
- August 2019 • Launch of 'MXdts', virtual equipment training simulator solution
- January 2018 • Establishment of Yellowtail Co., Ltd.

## Energy: Integrated Energy Management Metaverse Platform

### Lemonsoft

GWANGJU TECHNOPARK, BonC Innovators, Allione, Chosun University  
Industry-Academic Cooperation Foundation

#### ✓ Content Overview

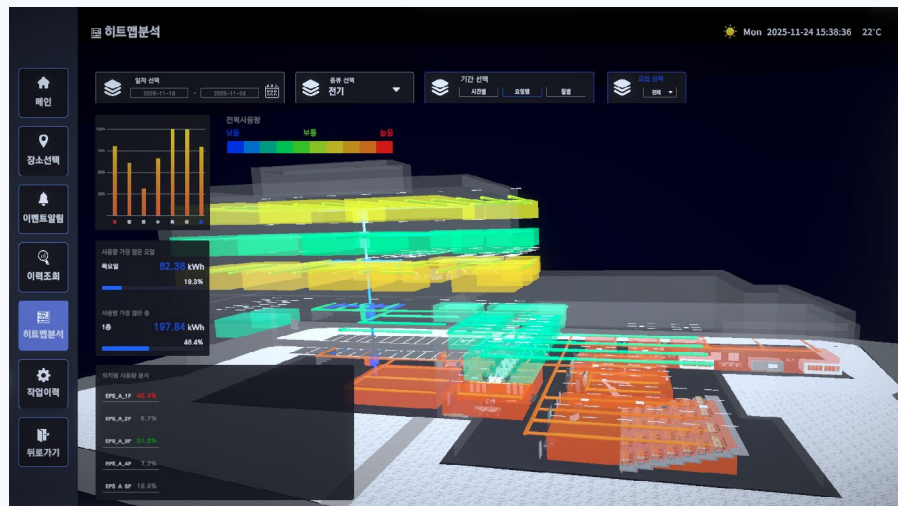
- ▶ It is a 'Metaverse-based Smart Building Energy Integrated Management Platform' designed to achieve carbon neutrality and efficient facility management in Gwangju Metropolitan City. To overcome the limitations of existing facility management, which is struggling due to manpower shortages and an aging workforce, actual buildings have been implemented in a virtual space (Digital Twin) to visualize energy flows—such as water, air, and electricity—in real time.
- ▶ Key features include intuitive 3D-based monitoring and remote control, an AR/mobile collaboration system that connects field workers and managers, and a WAS (Web Application Server) service that uses QR codes to report facility inconveniences. It instantly identifies wasted energy using AI-analyzed data and supports non-experts in easily managing complex building energy. Going beyond simple monitoring, this is a next-generation energy management solution that simultaneously reduces power consumption and carbon emissions while maximizing operational efficiency.

#### ✓ Applied Technologies

- ▶ The core technology is the convergence of 'Digital Twin,' which precisely replicates real-world buildings, and 'IoT Edge Computing,' which collects and processes various energy data. In a metaverse environment implemented with software such as 3ds Max, energy concentration zones are visually analyzed using heatmap algorithms, and AI-based predictive modeling detects power loads and anomalies in advance to provide optimal operational scenarios.
- ▶ For on-site support, Augmented Reality (AR) technology overlays equipment manuals and status information for operators. A smart control system based on a Zigbee local network has been established to ensure network isolation and stability in the event of communication interruptions. All these technologies are organically interconnected via Web and Mobile platforms (App/WAS), enabling a seamless integrated control environment (VR-AR-Web-Mobile) anytime, anywhere.

Business Direction

- The core business strategies are “resolving the shortage of facility management personnel” and “practically implementing ESG management.” We have verified the effectiveness of our system by achieving an average energy saving rate of approximately 6% through testbed operations at Chosun University and Gwangju Technopark. Based on this achievement, we plan to initially focus on targeting high-density buildings (universities, hospitals, and public institutions) within Gwangju to secure references.
- The solution is designed with a modular architecture to facilitate expansion to other buildings, and we plan to diversify our revenue structure beyond simple solution delivery to include subscription models for maintenance and data analysis reporting. In the mid-to-long term, we aim to expand our business scope beyond individual buildings into a smart city-wide energy trading and integrated control platform by incorporating AI-powered fully autonomous control and Virtual Power Plant (VPP) capabilities.



Lemonsoft



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**Business** AI, Virtual Convergence, Energy, SI

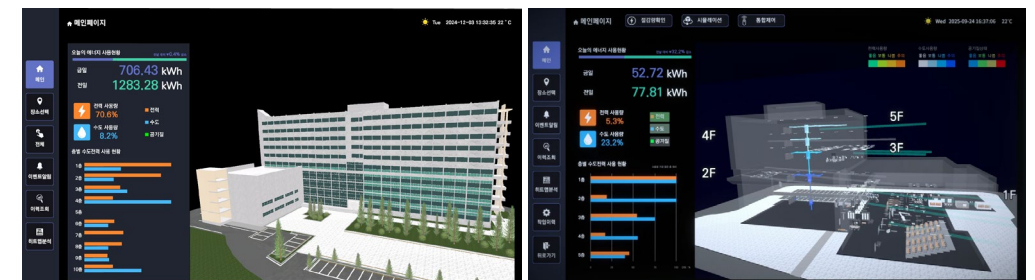
Company Overview

I DO, We Do

- Lemonsoft has consistently worked to advance the information industry in our region by providing customized professional services and consulting across various sectors to ensure system stability and customer satisfaction. We present optimal informatization models through the application of new technologies and systematic, efficient information resource management services. We provide customer satisfaction services through our technological leadership in the local community and extensive technical expertise.

Core Technologies

- Based on technologies such as digital twin-based multi-energy control facility operation system management and the development of VR customized content for children and seniors, as well as experience in developing various metaverse, digital twin, AR, VR, and 3D visualization platforms, cloud environment server maintenance, application software development, and AI business execution, we provide integrated metaverse and digital twin solutions. Leveraging our accumulated real-time data processing and visualization technologies, we are implementing differentiated services that create new user experiences and digital business value.



## History

- 2024-2023
  - National Radio Research Institute Information System Maintenance
  - Maintenance of equipment for the operation of the Real Estate Comprehensive Information Network at Buk-gu Office, Gwangju Metropolitan City
- 2024
  - Maintenance of the Administrative Information System at Buk-gu Office, Gwangju Metropolitan City
  - Computer server and software maintenance for Ilgok Library, Buk-gu, Gwangju Metropolitan City
- 2023
  - Maintenance of computer equipment for KEPCO KPS
- 2023-2022
  - Development of services for the National Information Resources Management Institute
- 2022
  - Development of a digital twin-based mail/logistics sorting automation system
  - Development of an AI integrated support service platform
  - Development of an integrated service platform for public health promotion
- 2021
  - Development of a next-generation bond management integrated platform
- 2021-2020
  - Development of a next-generation information system integrated monitoring system
- 2020
  - Development of a digital twin-based disaster safety communication network platform
  - Development of a next-generation power data management business system
  - Development of a digital twin-based virtual VPP system

## GWANGJU TECHNOPARK



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**CEO**

**E-mail** -

**Industry** Real Estate Service

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**Homepage** www.gjtp.or.kr

**Business** Lease, New Technology Development and Technical Guidance

## Company Overview

### Gwangju Technopark, AI Innovation Hub Leading Future Industries

- Gwangju Technopark (Gwangju TP) is a key institution established in 1998 during the IMF crisis that has, over the past 20 years, spearheaded regional industrial promotion and the nurturing of small and medium-sized enterprises (SMEs) and medium-sized companies.
- With the vision of “A Prosperous Gwangju Where Companies and People Gather,” it plays a central role in upgrading the regional industrial structure and creating future growth engines. In response to the changes of the Fourth Industrial Revolution, Gwangju is fostering the Artificial Intelligence (AI) industry, along with eco-friendly automobiles, new energy industries, and the bio-health industry, as its future strategic industries.
- Gwangju Technopark is building an AI-based convergence ecosystem through technology support, research and development (R&D), investment attraction, and job creation, and operates a full-cycle support system to strengthen the global competitiveness of local companies.

## Core Technologies

Key Technology Areas	Details
Smart Manufacturing & Automation Technology	Provision of consulting for smart factory establishment and advancement, process data-based productivity improvement, automation process application, and demonstration and technical support for manufacturing innovation
3D Convergence & 3D Printing Technology	Support for 3D printing and prototyping of metals, ceramics, and polymers, digital design and modeling, optical and illumination measurement technologies, and the development of new 3D convergence technologies
Medical & Bio-materials & Components Technology	Technical support for the entire lifecycle of medical materials, including manufacturing, surface treatment, and performance and reliability evaluation of metals, ceramics, and polymers for dental, orthopedic, and ophthalmic medical devices

Key Technology Areas	Details
Healthcare Robot Technology	Technical support for robot driving, motion, and safety evaluation, biosignal-based performance verification, and demonstration and commercialization of rehabilitation and healthcare robots
AI Analysis & Demonstration Technology	Strengthening corporate AI utilization capabilities through AI analysis and modeling based on industrial and healthcare data, AI service proof-of-concept (PoC), and the application of prediction and automation technologies
Testing, Evaluation & Certification (KOLAS) Technology	Support for accredited testing (KOLAS) based on international standards for environment, reliability, electrical safety, and EMC, as well as product safety and quality verification and acquisition of standard certifications

## History

- February 2024 • Achieved highest rating for core SME crisis response system
- November 2023 • Selected for regional specialized project 'Legend 50+'
- July • Institutional integration (Gwangju Technopark, Gwangju Institute of Science and Technology Promotion)
- June • Acquired ISO 45001 certification
- November 2021 • Inauguration of the 10th President Kim Young-jip
- July • Secured the Green Startup Town development project
- December 2020 • Selected as an excellent institution in the 2020 Anti-Corruption Policy Evaluation for affiliated organizations (Gwangju)
- October • Completion of the 1st AI Fund (108.9 billion KRW)
- May • Secured the Senior Cosmeceutical Demonstration Complex
- March • Inauguration of the 9th President Kim Sun-min
- November 2019 • Opening of the Artificial Intelligence Technology Support Center
- Opening of the Healthcare Robot Demonstration Center
- Designation as an Energy Convergence Complex and securing the Comprehensive Support Center project
- October • Secured the Industry-Academic Convergence District development project
- January • Completion of the Healthcare Robot Demonstration Center
- November 2018 • Inauguration of the 8th President Kim Sung-jin
- June 2017 • Completion of the Biomedical Material (Dental Material) Parts Technology Support Center

- January • Selected as an excellent institution in the 2016 Anti-Corruption Policy Evaluation for industrial institutions (Gwangju)
- December 2016 • Agency Commendation from the Minister of Trade, Industry and Energy (Technology Transfer and Technology Commercialization Support)



# BonC Innovators



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**Industry** Services

**Main Number** +82-70-4763-4730  
**Homepage** www.bonc.co.kr  
**Business** SI, Network, IT Outsourcing, Security, ICT

## Company Overview

### Impress Customers! Based on Capable Innovators

- BonC Innovators aims to establish itself as an IT partner for customer growth by enhancing the informatization levels of client companies and maximizing business value through systematic, efficient IT services. Driven by superior technology and a pioneering spirit to open up the future, we aspire to become a leading enterprise in human-centered Global IT.

## Core Technologies

- Drawing on our expertise in System/Network Integration (SI/NI) and IT consulting, we deliver systematic IT services that maximize our clients' business value. Specifically, we possess differentiated System Integration know-how accumulated from the Government Data Center and various other institutions, as well as optimized Multi-Vendor-based Total Network Integration services. We safely protect our clients' critical information assets through efficient IT infrastructure operation management via outsourcing, the implementation of information security solutions, and security monitoring services. By leveraging our top-tier technology and professional workforce to discover new ICT businesses and develop models linked to regional industries, we are taking the lead as a Global IT partner for our clients' growth.

## History

- 2023**
  - Developed Korea Mold Industry Association AI-based mold data analysis platform
  - Developed virtual environment-based digital hydrogen pilot city platform
  - Introduced and installed computer equipment for postal operations for Korea Post
- 2022-2024**
  - Developed Artificial Intelligence Industry Convergence Center AI integrated support service platform

- 2022**
  - Developed National Tax Service financial investment income tax prediction service
  - Developed Korea Asset Management Corporation intelligent next-generation bond management system
  - Developed Gwangju Immersive Content Cube (GCC) network equipment
  - Installed Seoul Metropolitan Office of Education SchoolNet service
  - Installed Korea Employment Information Service Agency Employment service
- 2021-2024**
  - Produced Arts Council of Korea exhibition contest content
- 2021-2022**
  - Migrated Korea Intelligent Information Society Agency administrative and public institution information systems to cloud
- 2020-2024**
  - Installed government-wide integrated information resource server
  - Installed intelligent disaster safety communication network equipment
  - Developed secure network for next-generation infrastructure network for Korea Post Information Center
  - Developed Rural Development Administration information system maintenance service
- 2020-2022**
  - Developed National Asian Culture Center VR content
- 2020**
  - Developed cloud storage network
- 2019-2024**
  - Developed intelligent smart city ITS equipment for Naju City Hall



# Allione



**Address** 3F, Building B, 12 Cheomdanyeonsin-ro, Buk-gu, Gwangju  
**CEO** Jong-woo Kim  
**E-mail** rnd@allione.kr  
**Industry** Application Software Development and Supply

**Main Number** +82-62-571-1543  
**Homepage** www.allione.kr  
**Business** New Renewable Energy

## Company Overview

Allione Co., Ltd. aims to go beyond a simple 'monitoring system' and present a new paradigm for intelligent energy operation systems through metaverse-based AR technology, AI prediction technology, sensors, and IoT technology.

- Allione is a company specializing in energy monitoring and AI solutions, established in 2023 by acquiring the software division of a renewable energy specialist. Since its inception, the company has been recognized for its technological prowess by supplying AI-based integrated monitoring technology, energy data analysis platforms, and metaverse-based AR technology to public institutions and private enterprises.

## Core Technologies

- Metaverse-based AR Convergence Technology**
  - LiDAR 3D Cloud Point-based AR Spatial Mapping
  - 3D Cloud Point-based Object Recognition and Highlighting Technology
  - AR-based 3D Real-time Data Visualization and Interactive UI System
- AI-based Energy Prediction and Control Technology**
  - Boosting-Based Building Energy Fluctuation Prediction Model
  - Real-time Data Processing and Anomaly Pattern Detection
  - AI Automatic Optimization Algorithm for Heating, Cooling, and Lighting Control



## History

- May 2025** • Won Initial Startup Package Project
- September 2024** • Obtained Venture Company Certification
- July** • Won International Energy Joint Project
- May** • Won Industrial Metaverse Flagship Project
- November 2023** • Won Startup Growth Technology Development Project
- May** • Won Regional Innovation Cluster Development Project
- February** • Established Allione Co., Ltd.

# Chosun University Industry-Academic Cooperation Foundation



**Address** Chosun University Office of Research Affairs/  
Industry-Academic Cooperation Foundation, 126  
Chosundae-gil, Dong-gu, Gwangju

**CEO** Goo-rak Kwon

**E-mail** grkwon@chosun.ac.kr

**Industry** Industry-Academic Cooperation (Research and Development)

**Main Number** +82-62-230-6280

**Homepage** iacf.chosun.ac.kr

**Business** Technology Commercialization and Transfer

## Company Overview

100 Years with the Region, Toward the Future with Students!

- The Chosun University Industry-Academic Cooperation Foundation is an organization that oversees cooperation between the university and industry, carrying out activities such as technology development, technology transfer, startup support, and participation in government and local government projects. Established in 2004, it is a small-scale enterprise-style organization that is projected to employ over 200 people and generate substantial revenue by 2025. Rather than a simple corporation, it serves as a hub for linking university research with industry. Its key features include promoting commercialization and talent development through the operation of a technology holding company and support for affiliated companies.

## Core Technologies

- The core technologies and activities of the Chosun University Industry-Academic Cooperation Foundation encompass technology commercialization (technology transfer, patents, startup support), support for SMEs, industry-academia linked R&D, and regional economic revitalization. It focuses on transferring research results in future new industries, such as AI, advanced manufacturing, and energy, to companies and commercializing them. For this, it operates a comprehensive industry-academia cooperation system that provides support through a technology holding company and a startup incubation center.

<b>기술이전</b>	전호 일 추출물(WE-LAS)을 유효성분으로 포함하는 치료용 조성물 특허이전(양도)
<b>대표발명자</b>	치과대학 치의예과 김춘성 교수
<b>기술개요</b>	전호일 추출물을 유효성분으로 포함하는 퇴행성 관절염 예방 및 치료용 조성물 국내 자생 전호를 가지고 선행 연구 개발을 통하여 염증 억제 및 관절 개선에 대한 효능 검증과 동시에 산업화를 전제로 용도 및 용법(관절 개선 및 퇴행성 관절염 치료 소재개발)에 관련된 기술로서 기능성 원료 개발 인정 및 의약품 소재로 활용 가능

- 농생명산업기술개발사업 수행 및 기술개발 (2017~ 2020)  
국내산 약용작물(전호일 및 붉은토끼풀)을 이용한 퇴행성 관절염 개선 식의약품 및 제품 개발
- 광주지역 바이오기업과 특허양도 계약 체결 (2021.10.29.)  
지역기업과의 기술사업화를 통한 지역경제 활성화 및 고용창출 기여 지속적인 공동연구를 통한 후속 기술개발 및 사업화 추진 중

기술이전 계약체결식

- 다수의 관심 갖는 기업과 후속 기술면담 진행
- 임상시험 및 IRB 승인 완료 (2020.07.29.)  
전호일 추출물의 경구 섭취의 관절 및 연골 건강에 미치는 영향 분석

<b>사업분야</b>	펩타이드를 이용한 세포외 소포의 제조방법을 이용한 진단 및 의약품 개발 사업		
<b>대표발명자</b>	의과대학 의예과 김태형 교수		
<b>기업명</b>	(주)엑소셀리버(대표자)	업종(생산품)	생명공학연구개발업, 제조업 등 (엑소솜 생산 및 응용사업 등)
<b>대표자</b>	김태형		

- 사업화 제품 특징
  - 높은 EVs(Extracellular Vesicles, 세포외 소포) 생산 효율**  
기존의 EVs 생산 효율이 매우 높음 (2x10<sup>4</sup> particles/cell). 기존 생산 방식은 1x10<sup>3</sup> particles/cell)
  - 짧은 EVs 생산 시간**  
생산 시간이 15분으로 매우 짧아 기존 생산 방식은 수일에서 수주에 걸쳐 생산하는 방식과 비교하면 효율적이다. 또한 세포를 키워야 하는 여러 조건을 제거함으로써 생산에 필요한 경비를 최소화할 수 있는 장점이 있음
  - 세포막 비투과 화합물 포획**  
세포막 비투과 화합물을 EVs에 포획이 가능하기 때문에 세포막 투과가 저조한 약물을 전달하는 약물전달체로 개발이 가능하다. 기존 EVs 생산 방식은 세포막 비투과 화합물을 포획이 거의 불가능
  - EVs에 재조합 단백질 포획**  
EVs의 안쪽에 원하는 재조합 단백질을 포획할 수 있어 진단시약 개발에 응용이 가능
  - 세포 무독성**  
경쟁제품인 리포솜의 경우 세포독성이 높다는 단점이 있으나 EVs의 경우 독성이 없어 장점으로 작용

### 손상된 DNA 복구하는 세포 내 방어시스템 규명



유호진 교수 | 의과대학 의예과

2022년 8월, 유호진 교수 연구팀이 약성암 등 각종 질병의 원인이 되는 손상된 DNA의 복구 활성을 조절하는 세포 내 방어 시스템의 원리를 규명하고 생명과학 분야 국제학술지(Nucleic Acids Research)에 발표했다.

연구팀은 DNA 복구 조절 실험을 통해 DNA가 손상되면 Ctlp 단백질이 세포 내 효소 단백질인 '시아2'(SIH2)에 의해 변형된 뒤, 손상된 DNA 말단을 정교하게 처리하는 사실을 밝혀냈다. 이 경우 돌연변이 발생 없이 DNA를 복구시켜 염색체를 안정시킨다고 연구팀은 설명했다.

유호진 교수팀은 과학기술정보통신부의 2022년도 선도연구센터 신규과제에 선정되어 약성암제어연구센터를 설립하고 '계능 불안정성 제어'를 통한 약성암 치료기술 개발'과제를 수행하고 있다.

### 치매 예방·치료 기술 개발 박차



이건호 교수 | 자연과학공공보건 안전대학 의생명과학과

광주치매코호트연구단 연구단장  
이건호 교수가 제15회 치매극복의 날 기념행사에서 치매환자 의료·관리에 기여한 공로를 인정받아 보건복지부장관 표창을 받았다.

대한민국 정부의 2017년 치매 국가 책임제 시행 이전인 2013년부터 조선대학교 광주치매코호트연구단은 10년 동안 광주지역 치매 고위험군 만여 명을 대상으로 치매 관련 정밀 검사를 실시해 유전체 검사 결과와 인지기능검사, 뇌 자기공명영상(MRI) 자료 등 다차원 자료들을 축적, 장기추적 연구를 진행해 왔다.

광주치매코호트연구단은 과학기술정보통신부의 지원을 받아 치매조기예측기술 개발을 통해 사전 예방을 목표로 치매예측 뇌지도 구축 및 조기진단 방법 확립을 위한 연구사업을 수행하고 있다.

◦ 큐브위성, 도전은 계속된다



박철현 교수 (연구팀) | 공과대학 기계공학과

2022년 6월, 한국형 발사체 '누리호(KSLV-II)'에 지역대학에서 유일하게 조선대학교 STEP Cube Lab-II 팀의 큐브위성이 탑재되어 핵심부품 국산화 등 우주기술 자립화의 신호탄을 쏘아 올렸다.

그리고 오는 2025년, 조선대학교 기계공학과 박철현 교수의 Cosmic Light house Keeper팀이 2022년 큐브위성 경연대회에서 선정(총 6팀)되어 누리호 4차 발사를 통해 큐브위성을 우주로 보낸다.

조선대 광기술공학과 안태정 교수 연구팀이 레이저 광통신 탑재체 개발을 위해 공동으로 참여하는 우주 광통신 궤도 성능검증 위성인 CPSat(Cosmic Pulsating nano-Satellite)가 누리호에 탑재되어 광주시의 광산업-인공지능 기반 산업 인프라, 전남도의 발사체 우주산업과 연계해 지속가능한 선순환적 우주산업 생태계 의 구축 및 활성화에 크게 이바지할 것으로 기대되고 있다.

◦ 국내 바이오·헬스 산업 연구혁신 클러스터 조성



조선대학교 산학협력단이 호남권 대학 중 유일하게 K-바이오헬스 지역센터 지원사업(2022, 보건복지부)과 산학연 플랫폼 협력기술개발사업 (2022, 중소벤처기업부) 선정으로 국내 유일의 산·학·연·병·관 클러스터가 구축된 광주에서 일자리 창출, 삶의 질 향상 및 지역경제 활성화 등 성장 가치를 제고할 전망이다.

▲ K-바이오헬스 지역센터 지원사업을 통하여 지역 클러스터 병원 간 협력으로 공간·시설·장비와 같은 하드웨어적 요소와 연구자원·역량 등 소프트웨어적 요소를 결합하여 지속적 운영이 가능한 창업 인큐베이팅 플랫폼 구축을 지원하며, ▲ 산학연 플랫폼 협력기술개발사업의 운영기관으로 국내 바이오·헬스분야 기업에 대한 사전 진단, 컨설팅, R&D 기획, 협력 R&D 지원 및 사업화까지 전방위적인 지원체계 구축을 추진한다.

History

- August 2025 • Opened Chosun University RISE Neulbom Center (Gwangju Technopark)
- June • Opened Regional Innovation Leading Research Center for Energy Conversion and Storage Device Resource Recycling (Ministry of Science and ICT)
- Selected as the Regional Innovation Leading Research Center (RLRC) (Ministry of Science and ICT)
- April • Established Chosun University Marine Healthcare Efficacy Demonstration Center (Self-reliant)
- March • Opened Humanities Data Science Research Center (Ministry of Education)
- November 2024 • Established Chosun University Optical Lens Industry Support Center (Self-reliant Center)
- October • Established Demonstration Research Group for Geriatric Brain Diseases (Ministry of Trade, Industry and Energy)
- September • Opened Aerospace Talent Training Bootcamp Project Group
- August • Designated as Specialized Soil-related Agency (Soil Contamination Survey) (Gwangju Metropolitan City Hall)
- March • Selected for Advanced Industry Talent Training Bootcamp Project (Korea Institute for Industrial Technology Promotion)
- October 2023 • Selected for G-LAMP Project (Ministry of Education)
- August • Designated as a Training Institution for Specialized Marine Healing Personnel (Ministry of Oceans and Fisheries)

- July • Opened Multiscale Structure-based Ultra-high Efficiency CO2 Adsorption Filter Development Center (BRL) (Ministry of Science and ICT)
- Opened Marine Bio Joint Cooperation Center (Wando-gun)
- June • Opened the Asian Dementia Cohort Research Group (Ministry of Trade, Industry and Energy)
- May • Signed MOU for the Operation of the Marine Bio Joint Cooperation Research Institute (Wando-gun)
- April • Selected the Bio-Medical Technology Development Industry (Ministry of Science and ICT)
- March • Opened the Support Center for the Development of Local Businesses (Ministry of SMEs and Startups)
- November 2022 • Accredited as a Testing Laboratory in the Field of Radiation Testing and Inspection by the Korea Accreditation Organization (KOLAS)
- June • Opened the Digital Twin Research Center (Ministry of Science and ICT)
- Opened the SW Professional Talent Training Center (Ministry of Science and ICT)
- Opened the Malignant Pressure Control Research Center (Renamed from Cancer Malignancy Mutation Research Center) (Ministry of Science, ICT and Future Planning)
- May • Selected for the Phase 3 Industry-Academic-Research Cooperation Leading University Development Project (LINC 3.0)
- January • Opened the K-Biohealth Regional Center (Ministry of Health and Welfare)

# [META K-PORT] Intelligent Logistics Management Platform

SIMSREALITY

Research and Business Development Foundation, PNU,  
Total Soft Bank, T2L

## Content Overview

### [META K-PORT Virtual Port Service]

- An integrated control, prediction, and simulation service for a metaverse AI virtual port that real-time synchronizes and virtualizes 670,000 m<sup>2</sup> of space, facilities, and equipment to support the operation of Hanjin Busan Container Terminal's Busan New Port Pier 3.



### META K-PORT Key Services

- Synchronized actual TOS real-time data into a virtual environment for the first time in Korea during the transition period of the vast majority of existing manned container terminals, in contrast to the recent opening of automated unmanned docks.
- It provides AI and metaverse-based vessel/berth/yard prediction and simulation services

## Applied Technologies

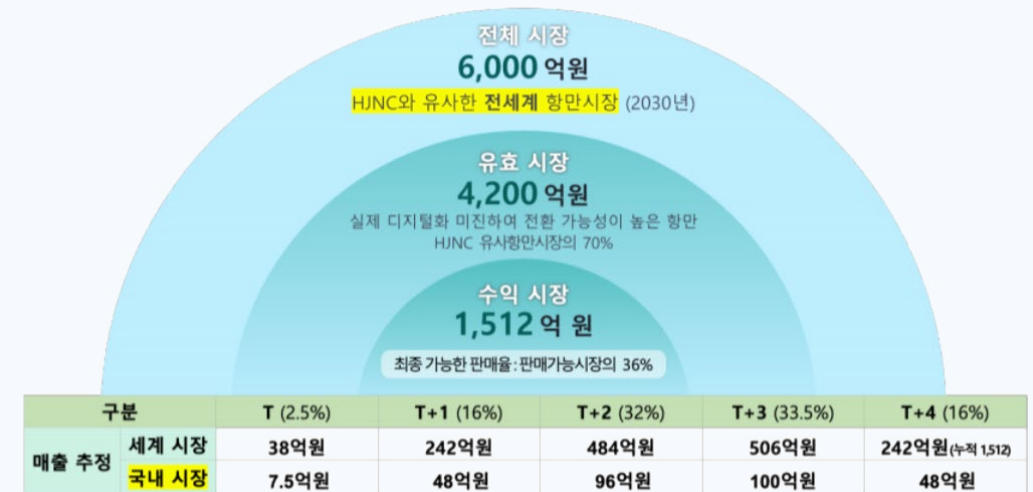
**(Features) Built as a photorealistic metaverse virtual port rather than an animation, it applies high-performance 3D modeling and digital twin technology, enabling excellent scalability through integration with various port operation and logistics information systems via APIs.**

- Constructs a virtual space similar to reality using the Unreal 3D engine and BIM Re-Meshing, enabling interaction by matching it with weather conditions (snow, rain, thunder, lightning, etc.).
- Capable of provide port control services by linking with various port solutions, such as Terminal Operating System(TOS), AI prediction/optimization systems, and integrated logistics management information systems.

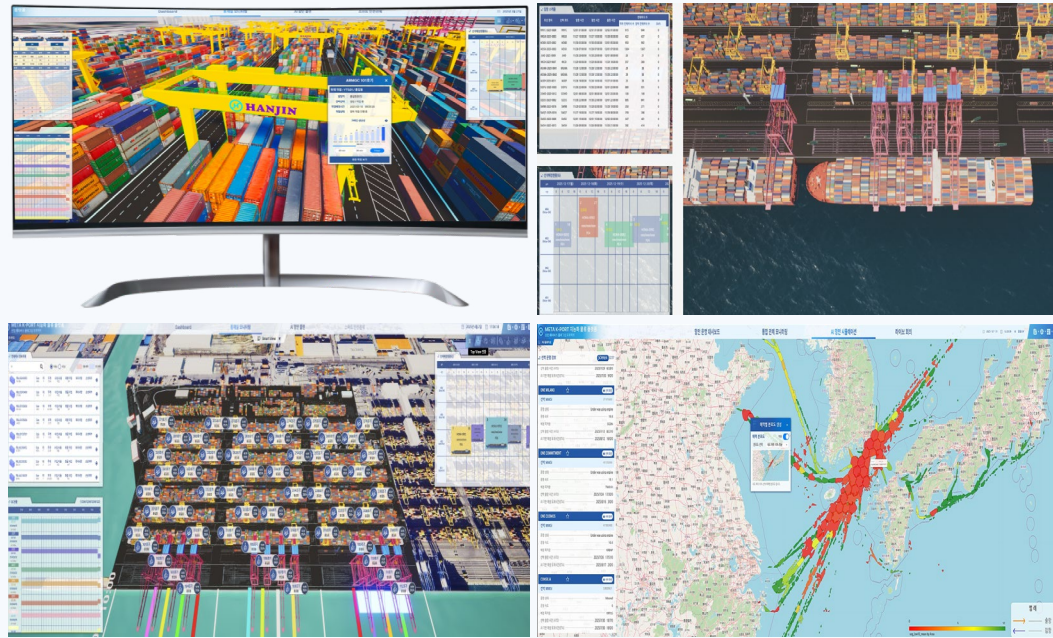
**(Advantages) A next-generation port operation control platform that provides logistics information through visualization and enables simulation by synchronizing with related facilities and equipment.**

- Verified planning scenarios for vessels, berths, yards, gates, and resources received via AI or user input by visualizing them through 3D modeling.
- Provided simulations by synchronizing TOS and real-time port data in real-time.

## Business Direction



Market	Definition	Base of Calculation	Calculation	Market Scale
<b>Total Addressable Market (TAM)</b>	Targeting all commercial port containers	Approximately 300 terminals similar to HJNC	300 x KRW 2 Billion	KRW 600 Billion
<b>Serviceable Available Market (SAM)</b>	Ports capable of transition due to insufficient digitalization	Targeting 70% of all similar ports → Approximately 210	210 x KRW 2 Billion	KRW 420 Billion
<b>Serviceable Obtainable Market (SOM)</b>	Reflecting actual market share	210 x 36% share	210 x KRW 2 Billion	KRW +p151.2 Billion



# SIMSREALITY



**Address** 4F, Sinyeong Building, 74 Techno jungang-ro (Gwanpyeong-dong), Yuseong-gu, Daejeon  
**CEO** Myung-hwan Kim  
**E-mail** oops@simsreality.com  
**Industry** Software Development and Supply

**Main Number** +82-42-934-1801  
**Homepage** simsreality.com  
**Business** AI-based Virtual Convergence Industry, Digital Twin Platform

## Company Overview

### Small Giant for AX-based Virtual Industrial Convergence Platform

- **Overview and Status**
  - SIMSREALITY contributes to cost reduction, operational efficiency, and improved training outcomes by providing integrated monitoring, maintenance training, operational prediction, and simulation solutions across industries through AI-based, virtual-convergence-based industrial digital twin spaces and platforms synchronized with reality.

#### 국내외 AI 디지털 트랜스포메이션 선도기업

심스리얼리티는 생성형 AI 기반 메타버스 서비스 및 산업의 디지털 트랜스포메이션 구축과 운영 경험을 가진 최고의 전문 기업입니다.

<b>회사명</b>	심스리얼리티
<b>대표이사</b>	김명환
<b>설립일</b>	2018.01.02
<b>소재지</b>	<ul style="list-style-type: none"> <li>• 본사 : 대전광역시 유성구 테크노중앙로 74 (신영빌딩 4층)</li> <li>• 경산 지사 : 경상북도 경산시 삼봉로 27 (경북테크노파크 본사빌딩 502호)</li> <li>• 대구 지사 : 대구광역시 중구 국제보상로 558-1, 2층 D543호</li> <li>• 포천 연구소 : 경기도 포천시 군내면 용정경제로1길 13-20 846호 (포천 밸류엑스 지식산업센터)</li> </ul>
<b>사업분야</b>	<ul style="list-style-type: none"> <li>• 메타버스 플랫폼 개발 및 서비스</li> <li>• 디지털 트윈 플랫폼 개발 및 서비스</li> <li>• 생성형 AI, 메타버스, 국방 정비 시뮬레이션, 스마트팩토리</li> </ul>
<b>임직원 수</b>	52명
<b>홈페이지</b>	http://www.simsreality.com
<b>대표전화/팩스</b>	T. 042-934-1801 F. 042-934-1802

**CEO Introduction**

**김명환 CEO** (Chief Executive Officer)

- 現, ㈜심스리얼리티 대표이사
- 전) HomeMacro 연구소장
- 소프트웨어 엔지니어링 전문가
- 경상대학교 컴퓨터과학과

**Business Location**

**포천** : 포천 연구소, 드론 사업/디지털 트윈 사업  
**경산** : 경산 지사, 메타버스/AI 사업  
**대구** : 대구 지사, AI/메타버스 사업  
**대전** : 대전 본사, 국방/시뮬레이션/메타버스/AI 사업

- **40% Average Revenue Growth Over 3 Years Based on NIPA Metaverse Support Projects**
  - Supply of metaverse service platforms for defense, manufacturing/aviation logistics, and international AI film festivals
  - Metaverse business growth from KRW 1.33 billion in 2023 to KRW 2.03 billion as of August 2025

- **Job Creation for Balanced Regional Development Increased by an Average of 12% Over 3 Years**
  - The number of employees increased from 38 in 2023 to 52 in December 2025 (※Based on 4 major insurances)
- **Successful Entry into Target Markets through Metaverse Support Projects**
  - Successful commercialization of Defense MRO, XR, and logistics/disaster safety businesses applying AX through NIPA Metaverse support projects (synthetic training environment, disaster safety enhancement, logistics management) from 2023 to 2025
  - Accelerated corporate growth and revenue increase through corporate and product promotion, and secured global network connections

**Core Technologies**

- **META K-PORT - Virtual Port Service**
  - A metaverse AI virtual port integrated control, prediction, and simulation service that synchronizes and virtualizes 670,000 m<sup>2</sup> of space, facilities, and equipment in real-time to support the operation of Hanjin Busan Container Terminal at Busan New Port Pier 3.
- **META K-PORT – Key Functional Service**
  - Korea's first synchronization of actual TOS real-time data into a virtual environment during the transition period of the vast majority of existing manned container terminals, in contrast to the recent opening of automated unmanned docks
  - Providing AI and Metaverse-based vessel/berth/yard prediction and simulation services
- **Providing Virtual Convergence and Digital Twin Platform Spaces and Services for Each AI-based Industry**
  - AX Logistics, including Smart Ports, Defense Virtual Convergence MRO, Disaster Safety, and International AI Film Festival Platforms

디지털 트윈 기반 통합 모니터링 시스템	AI 기반 운영 검증 시뮬레이션 시스템	원격 소통지원 시스템
항만 모니터링 시스템	AI 기반 운영 계획 검증	화상 및 음성 커뮤니케이션
현장 데이터 실시간 연동	운영 계획 검증 시뮬레이션	텍스트 및 드로잉 공유
터미널 운영 상태 대시보드	3D 가상 항만 동기화	현장 화면 실시간 공유
터미널 운용 계획 시각화	가상 항만 운영계획 시각화	실시간 작업 지시
디지털 트윈 기반 항만 운영 통합 관제 및 실시간 최적화	AI 기반 선박/선석/야드 최적화 예측 구현 및 검증 시뮬레이션	외부 협력자와 실시간 의사소통

### 국제 AI 메타버스 영화제

<b>프레젠테이션</b> 문서, 영상 등 사용자의 화면 공유	<b>아바타</b> 커스텀 가능한 개인 아바타 가능
<b>실시간 커뮤니케이션</b> 채팅, 화상, 음성, 라이브스트리밍 등 실시간 커뮤니케이션 가능	<b>상호작용</b> 게임 및 다양한 상호작용을 통한 게이미피케이션 요소 적용

### 디지털 트윈 AX제조물류 플랫폼

<b>시 출입 통제</b> 안전 인식 통제	<b>AR 협업 관리</b> 음성 및 영상 공유	<b>실감형 안전교육</b> 스마트 물류장비 안전	<b>실시간 모니터링</b> 재고 수량 및 위치
<b>복합 인식 통제</b> 화물 인식 통제	<b>문서 공유</b> 텍스트 및 드로잉 공유	<b>물류 이송장비 안전</b> 화재 예방 및 대응	<b>제품 정보</b> 입고 스케줄 관리
<b>시 카메라 기반 플랫폼</b> 3D 가상공간 관리	<b>AR 글래스 기반 협업 환경</b>	<b>멀티플랫폼 기반 일체형 (이론 + 실증) 안전교육</b>	<b>디지털 트윈 기반 3D 가상공간 구현</b>

### 가상현실 MRO 플랫폼

<b>객체지향 시뮬레이션 기술 적용</b>	<b>학습 진도 및 교과과정 관리</b>
<b>교육생 의사결정 기반 시뮬레이션</b>	<b>VR 기반 몰입형 장비 훈련 시스템</b>
<b>실시간 피드백 및 성과 분석</b>	

### AI.메타버스 재난안전 서비스

<b>공공 데이터</b> 기상정보, 재난안전, 교통정보, CCTV	<b>공공 데이터</b> 구호물품, 구호물품, 구호물품, CCTV
<b>관제자 AI 기반 서비스</b>	<b>몰입형 재난안전 교육훈련 콘텐츠</b>
<b>메타버스 연계 서비스</b>	<b>재난안전 시뮬레이션</b>
<b>AR &amp; 디지털트윈</b>	<b>AR &amp; 디지털트윈</b>
<b>AR &amp; 디지털트윈</b>	<b>AR &amp; 디지털트윈</b>



## History

- January 2025 • Registered Information and Communication Construction Business License
- February 2024 • Acquired ENVUE v2.0 GS Certification (Grade 1)
- November 2023 • Appointed as Member of Gyeongbuk Digital Alliance
- September • Established Gyeongsan Branch, Gyeongsangbuk-do
  - Joined as Full Member of Korea Metaverse Industry Association
- December 2022 • Acquired Family-Friendly Company Certification
  - July • Selected for Seoul Startup Hub Large Enterprise (DB) Cooperation Program
  - May • Acquired ENVUE v1.0 GS Certification (Grade 1)
- October 2021 • Selected as First Penguin Company
  - July • Became a member of Metaverse Alliance
  - June • Acquired Technology Innovation Small and Medium Enterprise (Inno-Biz) Certification
  - May • Selected as One of the National Representative 1000 Innovative Companies (Sensor Measurement Sector)
- March 2020 • Selected as a Preliminary High-Growth Company for the 2020 SW High-Growth Club
- November • Acquired ISO 901:2015 Certification
- August 2019 • Certified as an Excellent Technology Enterprise (Development of Educational VR Simulation)
- July 2018 • Established Corporate Research Institute
  - April • Acquired Venture Company Certification
  - Certified as an Excellent Technology Enterprise (Simulation Development (IX7121\_1))
- January • Incorporated

## Research and Business Development Foundation, PNU



부산대학교 산학협력단  
Research and Business Development Foundation, PNU

**Address** Pusan National University Samsung Industry-University Cooperation Building, 2 Busandaehak-ro 63beon-gil (Jangjeon-dong), Geumjeong-gu, Busan, 46241

**Main Number** +82-51-510-2742

**Homepage** sanhak.pusan.ac.kr

**Business** Service-Research and Technology Service

**CEO** Jeong-eun Kang

**E-mail** dric@pusan.ac.kr

**Industry** Non-profit organization (School)

## Company Overview

### Intelligent Marine Logistics Innovated by Data

- It is a specialized research institution for marine intelligence, leading the efficiency of global maritime logistics through the utilization of data science and AI.
- It has an extensive track record in ship ETA forecasting, port operation optimization, and global supply chain management through collaborations with partners such as Samsung Heavy Industries and the Busan Port Authority.
- It precisely analyzes unstructured maritime data using the latest LLM-based spatiotemporal embedding technology and provides CDT (Scheduled Daily Throughput) optimization solutions based on this analysis.
- It has been verified to have unrivaled technological capabilities through leading key national strategic initiatives, such as research on carbon-neutral supply chains and the establishment of smart port IoT infrastructure.
- It presented a vision for a sustainable smart maritime logistics ecosystem by combining accumulated domain knowledge with next-generation AI architecture.

## Core Technologies

- **This institution has a diversified AI portfolio spanning the entire spectrum of maritime logistics, from high-precision machine learning and deep learning prediction models to the latest LLM application technologies.**
  - Machine Learning & Deep Learning-Based High-Precision ETA Prediction  
It predicts, with ultra-precision, the vessel's Estimated Time of Arrival (ETA) and Time of Arrival (RTA), based on years of accumulated AIS big data and port operational performance, minimizing uncertainty in port operations through algorithms verified in collaboration with organizations such as the Busan Port Authority.

• Spatiotemporal Data Analysis and Logistics Optimization

It uses deep learning architectures, such as LSTMs and GNNs, to analyze vessel trajectories and optimize cargo-handling processes at bulk and container terminals. The efficiency of block logistics and integrated control management systems has been demonstrated through pilot projects with private companies such as Samsung Heavy Industries.

• Domain-Specific Hybrid AI Technologyn

It analyzes unstructured data, such as weather forecasts and port guidelines, by integrating LLM-based semantic embedding technology into traditional prediction models. Through this, it precisely identifies CDT (Constant Daily Throughput) variability and provides integrated decision-making solutions for building carbon-neutral and smart port infrastructure.



**History**

**Private Projects**

- January 2023 • Block Logistics Optimization (Samsung Heavy Industries, Inc.)
- January 2022– • Developed Integrated Control Management Technology for Offshore Platforms (IACODE Inc.)
- January 2022–December 2022 • Analysis of Overseas Port Application Cases of Vehicle Import/Export Reservation Systems (Busan Port Authority)
- January 2021–December 2022 • Industry-Academic Collaborative Research on Cargo Handling Optimization for Bulk Port Operation Planning and Management (CyberLogitec Inc.)

- January 2021–December 2022 • Developed an AI-based Container Freight Rate Prediction Model (Korea Maritime Institute)
- January 2019–December 2019 • Data Analysis and Prediction Model Construction for Busan Port Operation Planning (Ship ETA, RTA) (Busan Port Authority)
- January 2017–December 2021 • Research on Shipping Market Analysis Using Big Data - Development of a Dry Bulk Freight Index Prediction Model (Korea Maritime Institute)

**Government Projects**

- January 2023 • Human-Centered - Carbon Neutral Global Supply Chain Research Center (National Research Foundation of Korea)
- Regional Demand-Oriented Data Science Convergence Talent Training Project for Regional Industry Innovation (National Research Foundation of Korea)
- January 2022– • Developed Big Data/AI-Based Logistics Linkage Optimization Technology (Korea Institute of Marine Science & Technology Promotion)
- January 2021 • Developed Indicators for Quantitative Evaluation of Maritime Safety (Korea Research Institute of Ships & Ocean Engineering)
- January 2020–December 2022 • Developed Marine and Fisheries Big Data Platform and Center (Korea Intelligent Information Society Agency)
- January 2020–December 2020 • Designed a service integration structure for real-time interface of e-Navi Information and Port Operation Status Using Artificial Intelligence Technology (Korea Institute of Marine Science & Technology Promotion)
- January 2019–December 2022 • Developed Smart Port IoT Infrastructure Development Technology (Korea Institute of Marine Science & Technology Promotion)
- January 2018–December 2020 • Process-Based Simulation Analytics for Productivity Innovation (Korea Technology Information Promotion Agency for SMEs)

T2L



**Address** GL Metro City Hyang-dong, #1314, Building B, 201  
Hyangdong-ro, Deogyang-gu, Goyang-si, Gyeonggi-do  
**CEO** Jae-hee Kim  
**E-mail** master@tourt2l.com

**Main Number** +82-2-786-2471  
**Homepage** t2l.co.kr  
**Industry** Software Development  
**Business** -

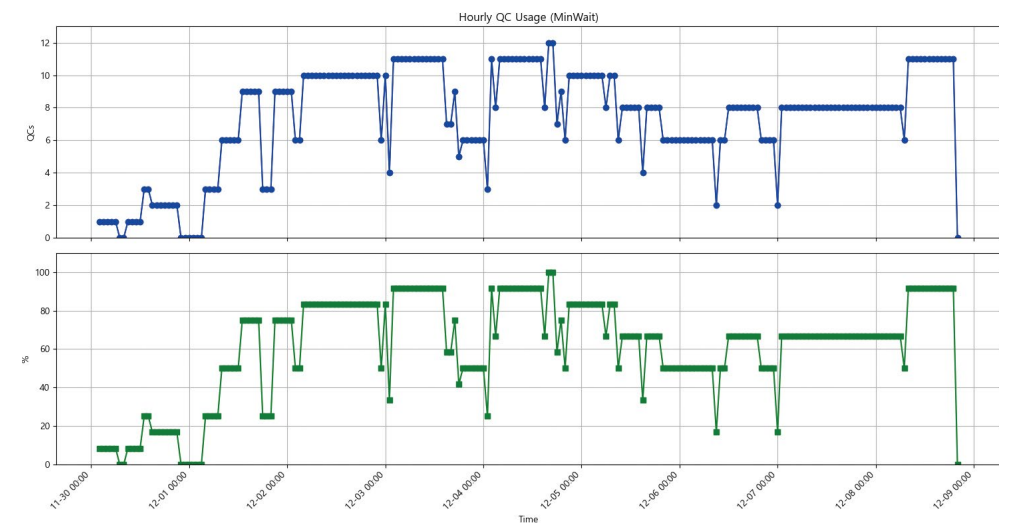
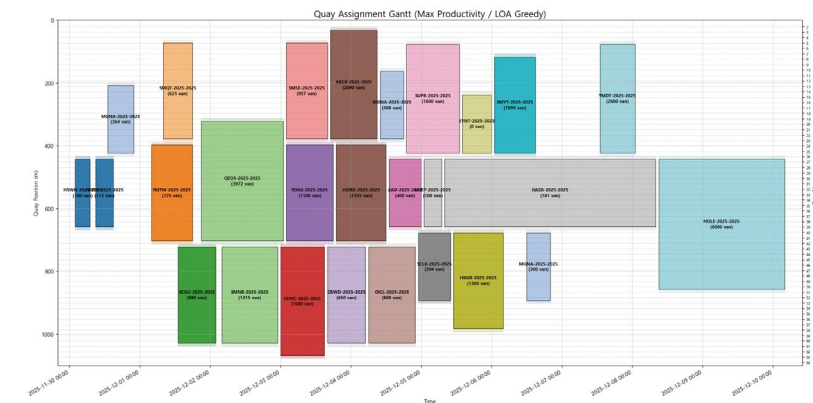
### Company Overview

Together to the World through Our Technology

- Founded in 2000, T2L provides software development services for travel, logistics, and shopping mall platform systems.
- T2L's mission is to create the best software for customer satisfaction and growth.
- T2L's motto is "With our technology, to the world, together."
- T2L stands for "Trade To Logistics."

### Core Technologies

- **Logistics**
  - For 25 years, since 2001, we have been engaged in development in various fields such as container and bulk shipping companies, shipping agencies, freight forwarders, 2PL/3PL, warehousing, air terminals, container yards, transportation/railway depots, and bulk transport
- **Distribution (Shopping Mall) Business**
  - In the logistics business, we provide an integrated solution for building online shopping malls and logistics (inventory, inbound/outbound orders, transportation orders) to enable B2C shippers to conduct sales and purchasing online
- **In-house Developed Tour Solution**
  - We are engaged in developing solutions for domestic and international travel agencies and comprehensive travel platforms; in 2023, we launched and operated an innovative travel platform unlike anything previously experienced



### History

- 2025**
  - Signed Groupware Development Contract with SK Shipping Co., LTD
  - Selected as a Participating Company in the NIPA 2025 Industrial Metaverse Project
- 2024**
  - Signed Contract for Operating System Construction with Samju Shipping
  - Signed Contract for RFID Fixed Asset Management Program Construction with SK Shields
  - Selected as a Participating Company in the NIPA 2024 Industrial Metaverse Project (2-Year Project)
  - Signed Contract for AWOT Airline Warehouse TPLS System Development
  - Developed ATOZ Airline GSA System
- 2023**
  - Signed System Maintenance Contract with SK Microworks
- 2022**
  - Signed Contract for POSCO Flow Smart Integrated Logistics Platform
- 2021**
  - Established Pre-operation System for Hyundai Glovis

# Integrated Manufacturing Site Operations Service for Virtual Convergence Industrial Complexes

Chungnam Institute

D-LIGHT PARTNER, AST Holdings, ILJOO GnS

## Content Overview

- It is designed to enhance industrial complexes by implementing manufacturing sites within aging industrial complexes as a metaverse-based virtual space. It addresses on-site structural issues, such as labor shortages, aging equipment, energy inefficiency, and limitations in process management. By providing integrated visual data regarding manufacturing, equipment, and processes, it supports improvements in on-site operational efficiency and manufacturing productivity.

## Applied Technologies

- Based on metaverse platforms and digital twin technology, it renders industrial complexes and manufacturing sites in 3D and intuitively visualizes equipment status and process flow by linking IoT and manufacturing data. A user interface designed for XR environments has been applied to enhance on-site understanding and usability.

## Business Direction

- It is structured to facilitate not only practical application for improving the efficiency of industrial complex operations and management, but also education and collaboration. The visualization of manufacturing sites and data within the virtual space increases understanding of the industry and supports communication and collaboration among stakeholders. The goal is to evolve this into an operational enhancement and predictionbased management service by integrating with AI analysis technology in the future.



Predictive Facilities Maintenance Service



AI-based Vision Inspection Service



Integrated FEMS Monitoring Service



Manufacturing Execution Monitoring

# Chungnam Institute



**Address** 73-26 Yeonsuwon-gil, Gongju-si,  
Chungcheongnam-do

**CEO** Hee-kyung Jun

**E-mail** -

**Main Number** +82-41-840-1114

**Homepage** www.cni.re.kr

**Industry** Service

**Business** Investigation and Research Service

## Company Overview

### Policy Research Organization for Chungnam Citizens, Making the Province Strong

- The Chungnam Institute was established to contribute to the balanced regional development and enhancement of regional economic power in Chungcheongnam-do and its municipalities by developing and presenting various regional policies through professional and systematic investigation, analysis, and research activities regarding all tasks related to the mid-to-long-term development and regional economic promotion of Chungcheongnam-do and its municipalities.

## Core Technologies

- Discovering independent and specialized regional research and policy in response to the era of globalization and localization
- Strengthening the function of the provincial administration think tank and performing the role of a control tower for policy research and science and technology R&D planning by integrating functions in the fields of regional development and science and technology in Chungcheongnam-do
- Creating policy research synergy by combining the performance of research in the institute's specialized fields with research and development (R&D) and technology promotion projects in the science and technology sector



## History

- 2025** • Presented 41 policy alternatives for key tasks of the 8th popular election, including responding to regional decline and carbon neutrality
- 2024** • Strengthened the control tower for future new industries and R&D with the opening of the Chungnam Science and Technology Promotion Headquarters
  - Contributed to securing 316.8 billion won in state funding through the designation of Special Opportunity Development Zones and support for the selection of Glocal Universities
- 2023** • Opened the Chungnam RISE Center to establish a regionally-led university support system
- 2015** • Renamed the 'Chungnam Research Institute' and expanded specialized centers such as the West Coast Climate and Environment Research Institute
- 2020s** • Specialized research through the separation of the Chungnam History and Culture Research Institute and the opening of the Chungnam Public Design Center
- 1995** • Officially opened as the 'Chungnam Development Research Institute' funded by Chungcheongnam-do and its cities and counties

# D-LIGHT PARTNER



**Address** #1502, Daerung Techno Town 22,  
146 Gasan digital 1-ro, Geumcheon-gu, Seoul  
**CEO** Hun-seok Lee  
**E-mail** hslee@d-light.co.kr  
**Industry** Software Development and Supply

**Main Number** +82-2-2059-1188  
**Homepage** www.d-light.co.kr  
**Business** Smart Factory Solution and  
Technology Development

## Company Overview

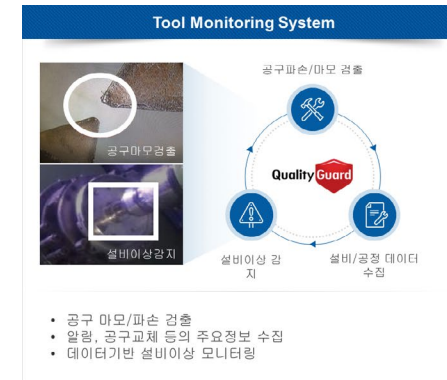
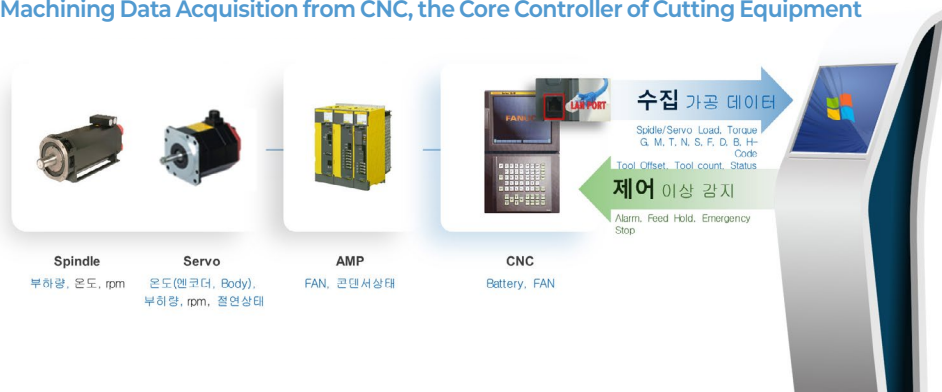
### DIVE IN YOUR DATA FACTORY

- We are a technology-based startup established in February 2016 that develops and supplies QualityGuard (hereinafter Q/G), a specialized solution for CNC cutting. As a company preparing to become a game changer in the field of manufacturing processes, we are conducting additional research and development on AI anomaly detection algorithms, robot predictive maintenance solutions, and more.

## Core Technologies

- **1. Manufacturing Data Collection**
  - By simply connecting the CNC to the Ethernet (LAN), it is possible to collect and monitor vast amounts of information from the machining center, and perform remote control functions, such as alarms and emergency stops, upon detecting anomalies.
- **2. Data-based Real-time Monitoring**
  - By adopting a simulation inspection method using long-term data, the probability of detection is increased while the possibility of misjudgment is reduced, overcoming the limitations of existing monitoring methods.

### Machining Data Acquisition from CNC, the Core Controller of Cutting Equipment



## History

- December 2024** • Changed name (D-Light Partner Co., Ltd., formerly Tachyon Tech)
- June** • Selected as Lead Supplier for Autonomous Factory Support Project - Adopting Company / Daehan Autotech Co., Ltd.
- June 2023** • The Ministry of Science and ICT's 'Data Voucher Support Project (AI Processing)', executed by 4 companies
- August 2022** • Selected as a supplier for Hyundai Motor Company's 'Smart Factory Large-Small Co-prosperity Type (JTC and 13 other companies)'
- January** • Supply of AI Anomaly Detection Solution for Hyundai Motor Company (Createch Co., Ltd.)'s 'Singapore Future Factory'
- 2021-2023** • 'AI Solution Demonstration Support Project' (Seoyoung Precision, Seohan Innovability, MITS)
- July 2021** • Hyundai Motor Company's 'Smart Factory Large-Small Co-prosperity Type (KMC Co., Ltd. and 11 other companies)'
- June** • Selected as Lead Supplier for K-Smart Lighthouse Factory - Adopting Company / Dongseo Engineering Co., Ltd.
- April** • Selected for KAMP Representative Solution Development R&D Project: 'Development of Manufacturing Data Joint Utilization Platform Technology'
- November 2020** • Development of AI Risk Detection Algorithm
- December 2019** • Executed approximately 40 support projects for 'New Smart Factory Construction' and 'Advancement' Selected by the Ministry of SMEs and Startups for R&D Project 'Development of Robot Predictive Maintenance Solution'
- June** • Hyundai Motor Company (Daehan FA) 'Supply of Seobogeon AI Anomaly Detection Solution to Kia Motors Hwaseong Plant'
- January 2018** • Hyundai Motor Company 'Development and Supply of Mold Processing Defect Factor Detection Solution'
  - Selected by the Ministry of SMEs and Startups for R&D Project 'Development of CNC Machining Monitoring Solution'
- May 2017** • Developed Cutting Machine Monitoring Solution 'Quality Guard'
- June 2015** • Changed name (D-Light Partner Co., Ltd., formerly Tachyon Tech)

# AST Holdings



**Address** AST Beopjo Tower, 95-3 Gwanggyojungang-ro  
248beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do  
**CEO** Dong-woo Lee  
**E-mail** contact@astkorea.net  
**Industry** Application Software Development and Supply

**Main Number** +82-31-217-1413  
**Homepage** www.astkorea.net  
**Business** Manual Production and Digital Twin

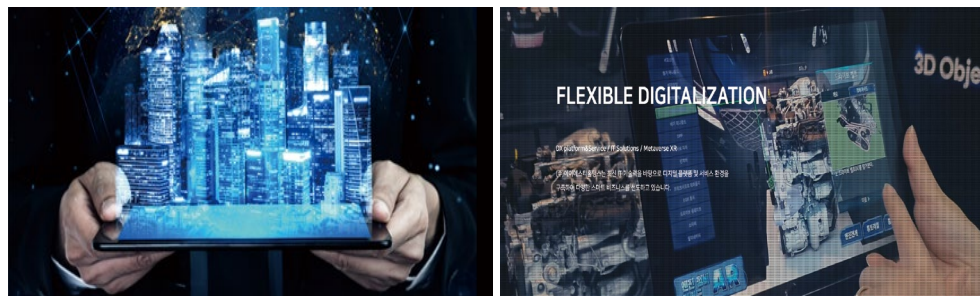
## Company Overview

### Profession Content Production Company Connecting Technology and People

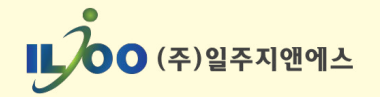
- Since its founding in 1997, AST has been a specialized content production company connecting 'technology' and 'people,' and through the passion and innovation of our employees, we are developing into a leading information design firm. Due to recent rapid changes across all sectors—politics, economy, society, and culture—ethical management, a new management paradigm, has emerged as a critical issue. Ethical management is a management philosophy that prioritizes 'corporate ethics' as the highest value in corporate activities and pursues transparent, fair, and rational business practices.
- AST aims to become a company that customers can trust by establishing concrete strategies to implement ethical management practices.

## Core Technologies

- Metaverse / Digital Twin Construction Technology (City/Asset 3D Modeling · Data Visualization)
- AR/MR-based Maintenance Support · Maintenance Training Systems (Maintenance Support Content for Industrial Sites)
- DX Platform · XR Services (Metaverse · XR Integrated Solutions) and Manual Production · Web Manuals (Information Design / Content Creation)



# ILJOO Gns



**Address** 5F, Ryulyoung Building, 10-1 Sajikbuk-ro,  
Dongnae-gu, Busan  
**CEO** Jung-yeob Kim  
**E-mail** iljoogns@i-gns.co.kr  
**Industry** Information System Integration, Software Development, Science and Technology Service

**Main Number** +82-51-502-4570  
**Homepage** www.i-gns.co.kr  
**Business** Smart City, Disaster Safety Solution, SI, Manufacturing DX/AX, Smart Factory, etc.

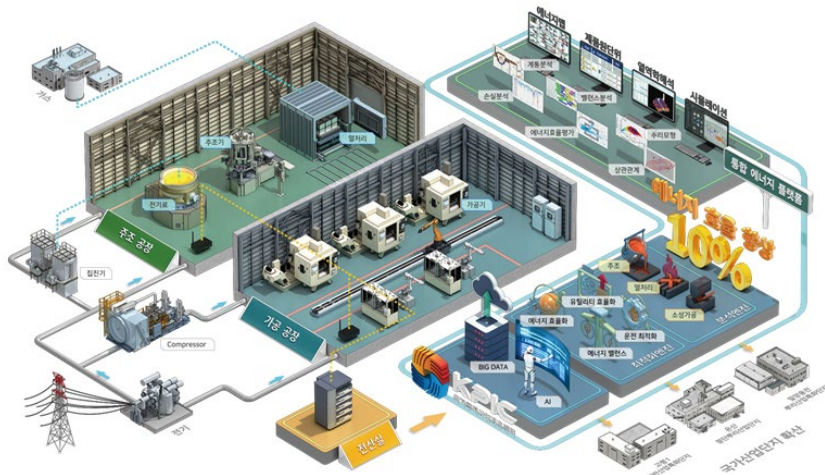
## Company Overview

### ILJOO Gns: Growing Toward a Sustainable Future

- ILJOO Gns is a digital innovation specialist company that primarily develops and consults on ICT convergence services required by the market and customers, and provides competitive solutions based on intelligent information technologies such as AI, Big Data, IoT, Cloud, and Digital Twin for various customers, particularly in the energy, manufacturing, industrial safety, disaster safety, and public sectors.

## Core Technologies

- **AI / Next-Generation Fintech / Smart City / Digital Twin Platform**
  - Provision of services such as smart cities based on AIoT technology and digital twins
- **In-house Energy Collection and Management Platform**
  - FEMS/EMS solutions that integrate and collect energy usage data (electricity, gas, water, etc.) through RTUs, IoT devices, and cloud-based systems
- **Service-Based MES Solutions**
  - Develops and operates numerous Manufacturing Execution Systems (MES) for smart factory construction, and provides cloud and real-time data-based production management services
- **Big Data Analysis Solutions**
  - Integrated provision of serial data analysis, visualization, modeling, and AI predictive analytics services through GUI-based Smart BI and MoAI platforms
- **Service Solutions in the ICT Field**
  - Provision of industry-specific customized integrated ICT services using IoT, AI, digital twins, and cloud technologies, including the public sector, energy, shipbuilding, and marine.



### History

- September 2025**
  - Awarded the Presidential Industrial Medal in 2025
  - Selected as a Strong Small Business for Youth Employment (Ministry of Employment and Labor, Ministry of SMEs and Startups)
- July**
  - Selected as a Busan-type Anchor Enterprise by Busan Metropolitan City, 'Manucorn'
- May**
  - Selected as a Specialized Energy Conservation Enterprise (Korea Energy Agency)
  - Selected as a Specialized AI Factory Enterprise designated by KEIT

- February**
  - Selected as a Regional Representative Enterprise by KICT (Korea Institute of Construction Technology)
- December 2024**
  - Received the DESIGN IT AWARD 2024 (AI & New Media Sector)
  - Received the Grand Prize at the WEB AWARD KOREA 2024
- October 2024**
  - Venture Company Certification (Innovative Growth Type)
- September**
  - Certificate of Commendation (Outstanding Growth Service Small Giant Enterprise)
- August**
  - Technology Innovation SME (INNOBiz) Confirmation
- July**
  - Selection Certificate for Busan Cheong-kkeul (Attractive to Youth) Company
- March**
  - Selected as Participating Company in Regional Specialization Project Legend 50+
- January**
  - 2024 Digital Tech Strategic Industry Leading Enterprise Certification
- January 2023**
  - Microsoft Mixed Reality Partner Program Registration Certification
- September 2022**
  - NOKIA 5G Industrial Network Solution Partner Registration
- May**
  - Corporate Research Institute Recognition Certificate\_Energy IoT Research Institute
- December 2021**
  - Busan Metropolitan City Outstanding Entrepreneur Certification
  - Certificate of Commendation (Industrial Development and Job Creation in Busan & Ulsan Regions)
- November**
  - Software Quality Certification - Hourly Work Calculation System v1.0 (GS Certification)
- October**
  - 2021 Smart Factory Award, Corporate Innovation Grand Prize in Industrial IoT Solution Category
- June**
  - KEPCO Energy Valley Investment Company Agreement
- May**
  - 2021 Ministry of Employment and Labor Small Giant Enterprise Selection
- April**
  - Busan Service Small Giant Enterprise Certification
- March**
  - R&D Service Industry Certification
- January**
  - 2021 Intelligent Information Service Industry Strategic Industry Leading Enterprise Certification
- December 2020**
  - 2020 Minister of SMEs and Startups Commendation Awards (Technological Innovation)
- May**
  - Selected as a 'Small Giant' by the Ministry of Employment and Labor in 2020
- March**
  - Selected as an AI Voucher Supplier by the Korea Data Industry Promotion Agency
- July 2018**
  - Certified as a Busan-type Hidden Champion in 2018
- February**
  - Established T-Hub Co., Ltd.: Specialized Intelligent IoT Company
- December 2017**
  - Certified as a Leading Strategic Industry Enterprise by Busan Metropolitan City in 2018 (Creative Culture Industry)
- October 2016**
  - Selected as the Best Smart Factory Implementation Case by Samsung Electronics (Dongjin Anotech)
- November 2011**
  - Headquarters Relocation (Sajik-dong, Dongnae-gu, Busan)
- June 2006**
  - Established ILJOO GnS Co., Ltd. (Hakseong-dong, Jung-gu, Ulsan)

# Eco-friendly Ship Demonstration and Training Services

Korea Automotive Technology Institute

Konkuk University Industry-Academic Cooperation Foundation, Onmakers

## Content Overview

- ▶ **The Eco-friendly Ship Virtual Demonstration Service** is a service that predicts and verifies eco-friendliness, such as emissions, using actual ship operation data and virtual ship models. It shortens the demonstration period by virtualizing evaluation and verification using real-time data-linked prediction models. It supports strengthening R&D competitiveness for domestic parts manufacturers and small- and medium-sized coastal vessel companies.
- ▶ **The Metaverse-based Eco-friendly Ship Monitoring Service** enables users to intuitively view the operational status and environmental data of small and medium-sized vessels in a virtual space. Real-time data, dashboards, and notification functions enhance status identification, anomaly response, and operational management efficiency. It supports improved understanding of eco-friendly operations and ensures stable operation and environmental response.
- ▶ **The Metaverse-based Eco-friendly Ship Education and Training Service** enables users to safely learn about eco-friendly ship equipment and maintenance in a virtual environment that closely resembles reality. Training is conducted interactively on the structure and principles of emission reduction equipment, fault code analysis, sensor warning response, and propulsion mode switching and power system understanding. It effectively improves operational and maintenance capabilities through an educational experience that mirrors the field's workflow.

## Applied Technologies

- ▶ **Eco-friendly Ship Virtual Demonstration Service**
  - Modeling technology for predicting ship resistance (propulsion) performance and exhaust gas emissions
  - MBSE (Model-Based Systems Engineering)-based ship system modeling technology
  - Actual ship operation data collection technology, real-time data, and hardware integration technology supporting virtual environments
- ▶ **Metaverse-based Eco-friendly Ship Monitoring Service**
  - Real-time precision linkage technology based on Metaverse and Digital Twin (synchronization of eco-friendly ship operation/status information ↔ virtual environment)
  - Real-time data collection, streaming processing, and data integrity assurance technology

- Integrated monitoring data operation technology for operation, equipment, environment, and emissions
- User-centric UI/UX and 3D visualization technology (improved comprehensibility/visibility, enhanced dashboard/interface convenience)

## Metaverse-based Eco-friendly Ship Education and Training Service

- GPS-Heading coordinate system conversion and real-time position estimation technology
- MQTT-based real-time data communication and monitoring integration technology
- AI-based exhaust gas particle visualization (Particle AI Animation) technology, physics-based wave-ship interaction visualization (Crest Ocean) technology
- High-resolution VR/XR interaction technology based on Varjo XR SDK, 3D digital Twin Modeling, and Environment Construction Technology

## Business Direction

- **1) Virtual Demonstration Service:** Commercialize emission prediction and verification based on actual vessel data as a "Virtual Demonstration Service" to expand it as an R&D acceleration solution that reduces development and verification periods and costs (targeting parts suppliers, shipbuilders, and operators).
- **2) Monitoring Service:** Develop into an operation model (subscription, etc.) that integrates and visualizes real-time operational and environmental data in 3D to enhance operational efficiency, safety, and environmental response; plan for monetization through notification and report-based maintenance services (individual commercialization of component technologies is possible).
- **3) Education & Training Service:** Package emission reduction equipment maintenance and operation/control training into standard content and supply it to educational institutions, shipping companies, and maintenance companies; establish a recurring revenue structure by adding qualification and evaluation (performance measurement) functions (including content creation tailored to specific target groups if necessary).
- **4) Integrated Business:** Connect "Demonstration (Development) - Operation (Monitoring) - Personnel (Education)" through a single digital twin platform to scale up through data accumulation → model advancement → service expansion (multi-vessel/multi-equipment).



Eco-friendly Ship Virtual Demonstration Service



Eco-friendly Ship Monitoring Service



Eco-friendly Ship Education and Training Service

## Korea Automotive Technology Institute



**Address** 303 Pungse-ro, Pungse-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do

**CEO** Jong-wook Jin

**E-mail** lkang@konkuk.ac.kr

**Main Number** +82-41-450-0060

**Homepage** www.katech.re.kr

**Industry** Research Service

**Business** Research

### Company Overview

- The Korea Automotive Technology Institute (KATECH) is a specialized automotive research institution that has grown alongside the domestic automotive industry since its establishment in 1990. It has conducted research on core automotive technologies and performed various support functions, including component reliability and certification, technical training, industry analysis, and policy development.
- Amidst intensifying competition to secure core future technologies, KATECH is strengthening its role as both a “leader” and a “partner,” driving the growth and transformation of Korea’s future mobility industry, grounded in innovative research capabilities and a spirit of challenge. We are striving to enhance industrial competitiveness and foster co-growth with the industry by actively pursuing “securing next-generation technologies” to lead the mobility industry with a significant competitive edge and “leaping forward through mutual growth” with industry members.
- In response to changes in the future mobility market, we will provide domestic parts companies with customized full-cycle cooperation models ranging from technology consulting and reliability to overseas expansion. By strengthening cooperation networks panning both domestic and international markets, we will strive to create new business models and facilitate the exchange of advanced technologies. Amidst the currents of innovation and change, KATECH will faithfully fulfill its fundamental role, taking another step forward as a global powerhouse in the future mobility industry, beyond the automotive sector.

### Core Technologies

- Possesses technologies related to autonomous vehicles, electric and hydrogen vehicles, and AI big data
- Possesses technology using virtual models for eco-friendly mobility (ships, etc.), including vehicles



Location Information of Korea Automotive Technology Institute



“Environment-friendly Ships Virtual Verification Center (Boryeong, Chungcheongnam-do)” Developed by Company

## History

- April 2025**
  - Acquired Jaguar Land Rover (JLR) Designated Testing Laboratory in Electromagnetic Compatibility (EMC) Field
  - Opened Boryeong Carbon Neutral Mobility Center
- January**
  - Inauguration of the 13th President, Jong-wook Jin
- January 2024**
  - Opened Boryeong Office
- December 2023**
  - Awarded Grand Prize for Ethical Management
- November**
  - Awarded Grand Prize at the ISC Innovation Performance Competition
  - Opened Jeju Office
- March**
  - Opened Yeonggwang Office
- January**
  - Opened Changwon Hydrogen Fuel Cell Technology Division
- November 2022**
  - Awarded Presidential Award for Reliability Improvement in Materials, Parts, and Equipment Technology Development
  - Opened Autonomous Driving Convergence Support Center
- September**
  - Opened Pangyo Semiconductor & Sensor Technology Division / Big Data & Software Technology Division
- November 2021**
  - Established Gyeonggi Headquarters
- July**
  - Designated as Representative Agency for the Automotive Industry Human Resource Development Committee (ISC)
- January**
  - Established AI Mobility Research Headquarters
- October 2020**
  - Designated as a Small but Strong R&D Special Zone
- November 2019**
  - Renamed the organization to Korea Automotive Research Institute
  - Designated as DSRC-V2V (OBU) OmniAir Accredited Testing Laboratory
  - Established Jeonnam Headquarters

## Konkuk University Industry-Academic Cooperation Foundation



**Address** 120 Neungdong-ro, Gwangjin-gu, Seoul  
**CEO** Lin-woo Kang  
**E-mail** lkang@konkuk.ac.kr  
**Industry** Industry-Academic Cooperation Foundation

**Main Number** +82-2-450-0060  
**Homepage** www.konkuk.ac.kr  
**Business** School

## Company Overview

### Konkuk, the Green Wave to Lead the World

- Konkuk University began in 1931 as the Social Affairs Central Indemnity Clinic and became a full-fledged educational institution with the establishment of the Joseon Political Science Institute in 1946. Later, it was elevated to a comprehensive university in 1959, and it has since established itself in its current form. This history demonstrates the process by which Konkuk University has grown into a global university that contributes to the common prosperity of society and humanity while navigating turbulent times.

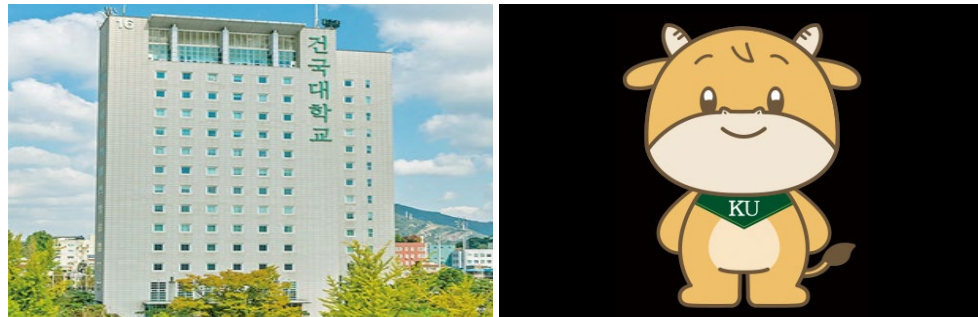
Konkuk University offers diverse educational programs to enable students to acquire the ability to solve problems through creative and innovative thinking. We fulfill our social responsibilities by contributing to humanity and by developing new knowledge and technologies through innovation and creativity. We operate various programs to strengthen our international capabilities and cultivate global talent.

Konkuk University will evolve into an innovative, research- and industry-academia-focused university capable of proactively presenting alternatives to resolve the challenges facing the nation and humanity. We will strengthen ties with the local community and fulfill our role as a university committed to social responsibility. The university is preparing for a brilliant century under the slogan “Konkuk, the Green Wave Leading the World.”

We ask for your continued interest and support as Konkuk University continues to develop.

## Core Technologies

- Virtual reality-based ship navigation simulation technology
- Virtual reality-based education and training simulation technology
- A track record of papers and patents related to physics-based virtual reality simulation



## History

- July 2025** • Inauguration of the 10th President Lin-woo Kang
- July 2024** • Inauguration of the 9th President Hong-goo Lee
- July 2022** • Inauguration of the 8th President Dong-yeol Yoon
- May** • Acquired PetOncoCare Co., Ltd. as the 16th subsidiary under the Technology Holding Company
- Acquired Tin-Technology Co., Ltd. as the 15th subsidiary under the Technology Holding Company
- February** • Acquired Daddy Food Co., Ltd. as the 14th subsidiary under the Technology Holding Company
- October 2021** • Acquired Fun Table Co., Ltd. as the 13th subsidiary under the Technology Holding Company
- Acquired Ystad Co., Ltd. as the 12th subsidiary under the Technology Holding Company

## Onmakers

**on\*makers**  
Walk together, Think together

**Address** 49 Hakhadong-ro, Yuseong-gu, Daejeon  
**CEO** Jung-hwan Byun  
**E-mail** admin@onmakers.com  
**Industry** Software Advice, Development and Supply

**Main Number** +82-42-486-0587  
**Homepage** www.onmakers.com  
**Business** IT System Development/Operation/ Maintenance and Management, Digital Twin/Metaverse, Big Data Analysis Solution

## Company Overview

### Walk Together, Think Together

- Onmakers Co., Ltd. is an IT specialist company leading data-driven digital transformation based on Metaverse and Digital Twin technologies. We precisely map diverse real-world information into the virtual space and combine it with big data analysis technology to support efficient decision-making and stable service operations in the public sector.
- Leveraging our integrated capabilities covering the entire lifecycle from planning and construction to operation, we provide highly reliable systems and aspire to be a partner company that creates sustainable social value through technological innovation and collaboration.

## Core Technologies

- With Metaverse and Digital Twin technologies at its core, Onmakers Co., Ltd. possesses the technological capability to precisely link and implement real-world spatial, facility, and operational data into virtual environments. By combining real-time data collection and big data analysis technologies, we build intelligent digital environments capable of monitoring, simulation, and predictive analysis.
- Through this, we support efficient operational management and scientific decision-making in the public sector, and implement stable interoperability with various administrative and business systems using an integrated platform that balances scalability and connectivity.



## History

- October 2024**
  - Professional Research Business Operator Registration Certificate
  - Innobiz Confirmation Certificate
- June**
  - Received ICT Grand Prize at Korea Leading Enterprise Award, Digital Twin Sector
- November 2023**
  - TTA Certificate (Big Data Integrated Management Platform)
- June**
  - Received ICT Grand Prize at Korea Leading Enterprise Award, Digital Twin Sector
- July 2022**
  - Received ICT Grand Prize at Korea Leading Enterprise Award, Data Solution Sector
- August 2021**
  - Received ICT Grand Prize at Korea Leading Enterprise Award, Data Solution Sector
- March 2019**
  - Acquired Patent No. 10-1958998
- August 2018**
  - R&D Service Business Registration Certificate
- October 2016**
  - Relocation of Onmakers Co., Ltd. to New Headquarters
  - August**
    - Certificate of Registration as a Professional Industrial Design Company
- March 2015**
  - Establishment of Onmakers Co., Ltd. Corporate Research Institute
- January**
  - Acquisition of Patent No. 10-1488932
- October 2011**
  - Acquisition of ISO 9001, 14001 Certifications
- October 2008**
  - Establishment of Onmakers Co., Ltd.

# 3

## Media

**[AIDIX] Intelligent Digital Human Service**  
BIBIMBLE

**[SHAREBOX] Interaction XR Media Experience**  
SHAREBOX

**Interactive Ocean Media Wall**  
ArtygenSpace



# [AIDIX] Intelligent Digital Human Service

## BIBIMBLE

### Content Overview

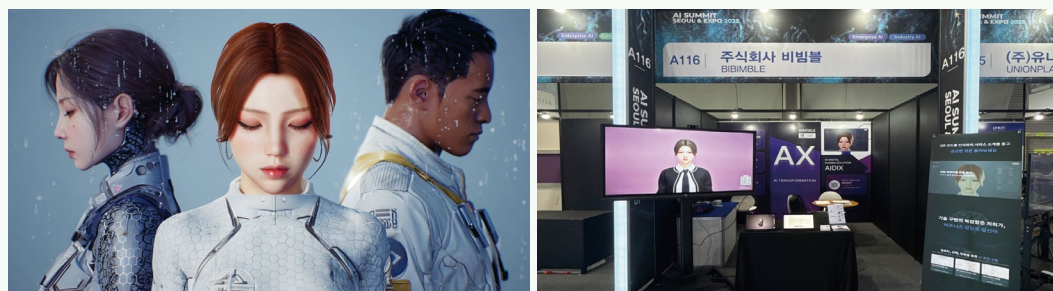
AIDIX EX-001 is an 'AI Agent Digital Human Solution' that embodies the proprietary AI technology of BIBIMBLE, a company selected as an NVIDIA Inception member. By simply uploading a PDF, it learns professional knowledge in real time through RAG-based knowledge vectorization and supports over 30 languages. It provides practical interaction services that lead the AX (AI Transformation) era, such as recognizing visitors' name tags at exhibitions to provide personalized responses.

### Applied Technologies

- NVIDIA GPU Acceleration Optimization:** Ultra-low latency real-time interaction technology via NVIDIA Inception
- RAG-based Knowledge Management:** Instant acquisition of expertise and generation of answers simply by uploading documents
- Multimodal AI Integration:** Realistic facial synchronization based on voice (ASR/TTS) and visual AI
- 30-Language Engine:** Real-time interpretation and speech functions specialized for global business environments

### Business Directions

- Starting with sales automation in the exhibition and MICE industries, we plan to expand the application of our services across industries where multilingual communication is essential, such as education, healthcare, and tourism. We intend to use Japan, where English proficiency is low and the exhibition market is active, as an initial bridgehead for global expansion. We aim to fully launch SaaS subscription models and custom manufacturing businesses based on local partnerships (such as AVITA and Reed Japan).



## BIBIMBLE

## BIBIMBLE

**Address** #804, 8F, R&D Tower, Nuritkum Square, 396 World Cup buk-ro, Mapo-gu, Seoul

**CEO** Mi-ran Yoo

**E-mail** arm357@bibimble.com

**Main Number** +82-2-6441-3876

**Homepage** www.bibimble.com

**Industry** Software Development

**Business** AI, Metaverse, VR, MR

### 기업 소개

#### BIBIMBLE Dreams to Bridge Imagination and Reality

- Under the name BIBIMBLE, experts from various fields, including the CEO, have come together to take on a new challenge merging their respective strengths. BIBIMBLE Co., Ltd. integrates cutting-edge digital media technologies to develop innovative technology-based user experiences and build platforms.

### Core Technologies

#### 1. AI Agent and Conversational Interaction Technology

**RAG (Search Augmentation Generative)-based Knowledge Learning:** This is a business-optimized AI engine that vectorizes internal corporate documents (PDF, DOCX, etc.) in real-time to provide answers based on accurate information, without hallucinations. **Multimodal Integration Engine:** By combining Audio-to-Face synchronization with Automatic Speech Recognition (ASR), Language Models (LLM), and Text-to-Speech (TTS), it implements natural interactions that feel like conversing with a real person.

**NVIDIA GPU Acceleration Optimization:** Leveraging the technical expertise gained as an NVIDIA Inception member, we have maximized real-time translation and response speeds by processing complex AI computations with ultra-low latency.

#### 2. High-Resolution Immersive Digital Human Production Technology

**Unreal Engine-based Real-time Rendering:** Using Unreal Engine 5, we render skin textures, hair, and clothing to a photorealistic level, and we leverage optimization technology that enables operation even on low-spec devices.

**Intelligent Digital Human Customization:** We provide a SaaS-based production toolset that enables users to intuitively edit the appearance, voice, and personality of digital humans via a web dashboard, without specialized technical knowledge.

● 3. Intelligent Vision Recognition and Environment Sensing Technology

**Proactive Visitor Detection:** We have implemented a proactive response algorithm that uses camera sensors to track visitors' presence and gaze in front of a booth, initiating conversation first.

**OCR-based Name Tag Recognition:** This technology scans visitors' name tag information in real-time and analyzes relevant corporate data via web search to provide personalized sales briefings.

● 4. Scalable SaaS Platform Architecture

**No-Code Operating Environment:** We have enhanced operational efficiency by establishing a cloud-based management system (Dashboard) that enables content distribution and management via a web browser, without complex installation.

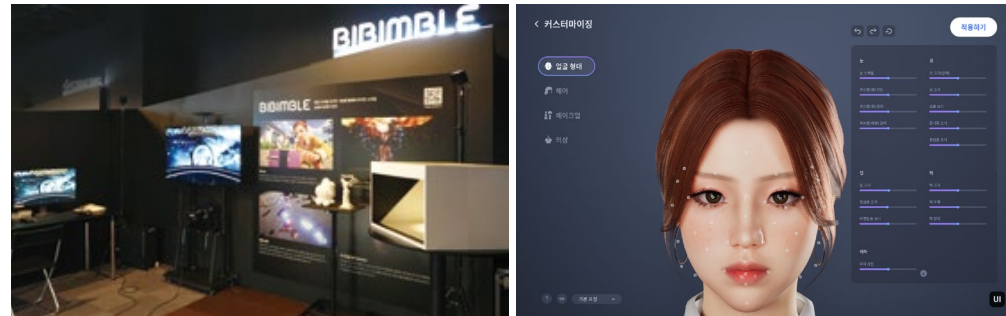


Photo of the Exhibition Hall

Digital Human

History

- September 2025 Signed Tech Service Export Voucher
- April Signed 'En-Up' collaboration program with a global company (NVIDIA)
- March Performed content production (editing) services for the media wall at the Bucheon R&D Center
- November 2024 Supported the 2024 Fashion Digital Transformation (DX) Project linked to the DDP Showroom
- October Developed the official docent app for Samsung Electronics' 'Samsung Technology Exhibition'
- April Ultra-immersive 3D Showroom Commerce using 2024 Startup Leap Package "KT Cloud Streaming and Sports/Entertainment IP"
- Planned and operated the Holo MR Digital Human Talk Concert
- March Held Generative AI-based NBA Star Showcase Exhibition at The Hyundai Pangyo (Over 50,000 visitors)

- December 2023 Selected as an excellent case for the Ministry of Science and ICT's ICT Fund Project and presented the case at the Metaverse Alliance Achievement Presentation
- May Selected for the Metaverse Leading Technology Development Project (Lead: BIBIMBLE Co., Ltd. / Participants: Dexter Studios, JTBC, etc.)
- December 2022 Developed the LG AI Digital Human 'TILDA' kiosk and demonstrated it to companies including Woori Bank
- October Produced Changgyeonggung Palace Media Art Exhibition <Walking Between Moment and Eternity> (Over 50,000 visitors)
- May Selected for Metaverse Platform Development Project (Lead: BIBIMBLE Co., Ltd. / Participating: Dexter Studios)
- April Secured Seed-Level Investment from E-Land Group (E-Land Ventures KRW 1 billion, E-World KRW 1 billion)
- March Participated in MWC Barcelona
- February Broadcasted Metaverse and HOLOMR technology at YTN Silence Headquarters
- January Held Main Showcase for 'Dokkaebi Fantasia' at FITUR Tourism Fair in Spain (Demonstration by the King of Spain)
- December 2021 Received the Minister of Science and ICT Award
- October 2020 Operated exhibitions at the Seoul Metropolitan Office of Education Career Fair and Doosan Robotics 'E-Roadshow'
- Operated digital exhibitions for the Korea Arts Management Service Seoul Art Market (PAMS), KMF HOLOMR exhibition
- Operated the BTS: MAP OF THE SOUL DIGITAL EXHIBITION (25 million visitors over 30 days)
- March Operated HOLOMR exhibitions at the LX Smart Land Expo for 2 consecutive years (200 million KRW scale) Busan International Film Festival utilization

# [SHAREBOX] Interaction XR Media Experience

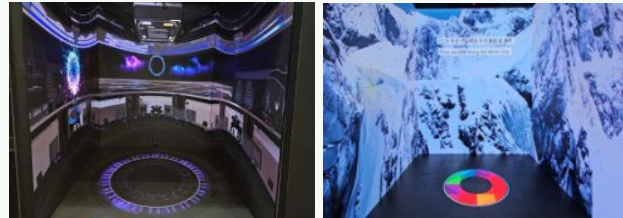
## SHAREBOX

### Content Overview

#### Multisensory XR Interaction Module Package Service

<SHAREBOX>

XR Multisensory Interactive Module Package Service



### Product/Service Overview

- SHAREBOX provides a differentiated user experience combining space and technology through immersive XR interaction content solutions optimized for various display formats. Each product line offers customized designs based on content purpose and installation environment. Among the services based on five displays, SHAREBOX is a proprietary XR-based multi-sensory immersive experience system that provides interactions combining various senses such as sight, hearing, and touch. Designed with a modular structure tailored to space and purpose—including pop-up (LX), indoor fixed (P), and outdoor (OL) types—it enables the rapid application of customized experience content to educational, retail, and cultural spaces.

### Features and Competitiveness

- It provides visitors with a deep sense of immersion through a five-sense XR experience that encompasses content, sound, scent, wind, and spatial staging..
- Through experiential content that combines immersive video and interaction, it offers the joy of direct participation, beyond mere viewing. It can flexibly expand across various industries and national cultures by customizing and applying not only its own IPs but also external and local IPs.

### Applied Technologies

- As a company that develops and commercializes experiential interaction systems centered on multi-sensory Extended Reality (XR) technology, its core technology is an XR content platform named 'SHAREBOX,' characterized by providing an immersive interface that utilizes a total of five senses (sight, hearing, touch, smell, and vibration), including audiovisuals.

Technological Elements	Description of Technology
Automatic Spatial Configuration Recommendation Technology	Technology for proposing projector and sensor locations within a space and correction between projections
Behavior Recognition Technology	Technology capable of sensing, recognizing, and interacting with participant movements and positional shifts
XR Convergence / Representation Technology	Technology for expressing interactive phenomena based on behavioral responses and QR recognition
XR Experiential Spatial System Technology	A function that receives input from one or more senses and converts them into sensory information of different forms

### Business Direction

- **Content-Centric XR Business Expansion Strategy**
  - We established a business model that enhances visitor dwell time and immersion through diverse content formats, such as selectable animations, game-like experiences, and participatory media art.
- **Deployment of Space-Based B2B & B2G Content Business**
  - Setting “spaces requiring experiences”—such as retail, exhibitions, public facilities, and educational venues—as key markets, we propose content packages tailored to the specific characteristics of each space. It is applicable to everything from short-term pop-ups to permanent exhibitions, and we aim for a model that simultaneously satisfies the objectives of brand promotion, cultural content, and education.
- **IP-Expanding Content Business Model**
  - We reconfigured proprietary and external IPs into XR content for application in global exhibitions, pop-ups, showrooms, and cultural events. Going beyond one-off experiences, we foster sustainable utilization and revenue structures through seasonal content rotation, regional localization, and collaborative content production.
- **Modular Service-Based Overseas Expansion Strategy**
  - Centered around SHAREBOX, we modularize content, systems, and operational methods to enable rapid application to overseas exhibitions, exports, and pilot projects. It is a structure that can be expanded into showrooms, experience zones, and public projects through collaboration with local partners.

● **Establishing a Sustainable Experiential Content Ecosystem**

- In the future, moving beyond simply installed XR, we will expand reusable experiential models based on accumulated content and operational experience. Through this, we will evolve into a global content distribution and collaboration network connecting regions, nations, and spaces.



# SHAREBOX



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**CEO** Yeon-sik Shin  
**E-mail** 0531m@ssharebox.com  
**Industry** Immersive Content Development and Production

**Main Number** +82-2-2132-8340  
**Homepage** ssharebox.com  
**Business** Multisensory XR Immersive Experience Ultra-Immersive Content and Solution

## Company Overview

### SHAREBOX Offers Equal Opportunity Beyond Time and Space

- SHAREBOX is an XR specialist company that provides immersive experience services combining space and content, based on multi-sensory XR interaction technology. Through its proprietary modular XR system, SHAREBOX, the company offers a one-stop solution covering planning, content production, installation, and operation, creating new experiential value for retail, cultural, educational, and public spaces. The company possesses the capability not only to utilize existing IP but also to produce customized IP and content tailored to specific spaces, purposes, and targets, and has demonstrated proven results through domestic and international exhibition, education, and promotion projects. Pursuing an “experience-centric” XR rather than a technology-centric one, the company envisions establishing a sustainable standard for XR experiences in the global market through immersive K-content that anyone can intuitively participate in.

## Core Technologies

- **Five Senses-Based XR Interaction Technology**  
 We implemented a five-senses experience environment in which user actions are immediately reflected in the content, combining visual and auditory elements with tactile sensations (physical reactions such as vibration, pressure, and impact), spatial acoustics, and some olfactory effects.
- **Real-time User Response-Based Interaction Processing Technology**  
 We designed it to recognize visitors' movements, locations, contacts, and selections in real-time, enabling dynamic changes to content progression, effects, sound, and visual responses.

● **Space-Specific XR Production and Synchronization Technology**

We designed content to match the actual spatial structure, including floors, walls, LEDs, and structures, and precisely synchronize screen, sound, and physical reaction elements. It is applicable to everything from indoor booths to pop-ups, exhibitions, and public spaces, optimizing experience density and traffic flow for each location.

● **Modular XR System Design Technology (SHAREBOX)**

It has a structure that allows for flexible combination based on purpose and budget by standardizing and modularizing content, hardware, and interaction modules.

● **Interactive Content and IP Expansion Production Technology**

We reinterpreted not only proprietary IP but also external characters, brands, and story IPs to suit the XR environment, and realized them as content by combining choice-based progression, game structures, and experiential narratives.



**History**

- November 2025**
  - Applied for 2 trademark applications and 1 design application for AI XR Escape Room <Escape Room>
  - Hosted a pop-up for our proprietary content, the AI XR Escape Room <Escape Room> (Space V, AK Plaza, Hongdae)
  - Held 'Detective Pete Dinosaur Investigation Team' XR experience space pop-up (SHAREBOX & Curio) on 5F of Hyundai Department Store Pangyo
- October**
  - Held KIP-FESTA Goyang Starfield XR experience pop-up (SHAREBOX & Curio)
  - Visited as one of the 'Startups 20' invited by the Saudi Arabian Government & Korean Embassy
- September**
  - Exhibited a 5-Senses Experience Booth at the KT XR Expo and produced and delivered XR content
- June**
  - Demonstrated technology of the XR 5-Senses Experience Space at the National Technology Pavilion, COEX World IT SHOW

- May**
  - Selected as a Consortium for the Gyeonggi Content Agency's 2025 K-Content IP Convergence Production (XR Experience Space)
- April**
  - Selected for the Korea Creative Content Agency's AI Multimodal XR Content Production Support
  - Participated as an exhibitor at VIVA TECH in France (Selected as an LVMH Choice Company)
  - Selected for the National Library of Children and Youth's 2025 Experiential Storytelling Production and Distribution
  - Demonstrated Show-XR 5-Sense Experience Space Technology at World IT Show
- March**
  - Selected for AI Smart Classroom Pilot Project (Installation of XR space and guide robots)
- February**
  - Broadcasted proprietary anamorphic content on Hyundai Department Store COEX outdoor LED screen for 2 months
- January**
  - Signed contracts for 3 NDAs out of 12 MOUs with Hong Kong companies
- December 2024**
  - Established and marketed a Moncler perfume XR pop-up zone as a PoC for Hyundai Department Store Duty Free (2 months)
- October**
  - Invited to exhibit XR Sharing Cosmos at KINTEX Digital Future Show
  - Participated in the SBA Seoul XR Festival (Space Wadiz, Seongsu-dong) with an independent booth
  - Registered 4 copyrights for the XR cinematic space exploration content <Sharing Cosmos>
- May**
  - Selected for the Daejeon Information & Culture Industry Promotion Agency's New Cultural Content Creation Project
- April**
  - Selected for the National Children and Youth Library's 2024 Production and Distribution of Experiential Storytelling
- December 2023**
  - Selected for Global Accelerating (Slush, Finland)
- October**
  - Participated in the Dubai GITEX global exhibition and export
- September**
  - Participated in the 2023 Korea Construction Safety Expo booth
- July**
  - Invited to exhibit and demonstrate at the Career & Vocational Experience Fair hosted by the Seoul Metropolitan Office of Education
- February**
  - Established Seoul Sangam XR Showroom and <X-Rumpus Box>
- October 2022**
  - Established KB Kookmin Bank VR Branch (2nd Phase) - 140 million KRW
- August**
  - Selected for SBA Seoul City Demonstration Testbed Project (August 2022 – July 2023)
- July**
  - Participated in the RAPA Metaverse Platform Development Support Consortium
- May**
  - Selected for the Research Institute Enterprise Capacity Enhancement R&BD Project (May 2022 – December 2023)

- April • Selected for TIPS Startup Commercialization and Overseas Marketing Projects (April 2022 – March 2023)
- February • Selected for the Daejeon Information & Culture Industry Promotion Agency Cultural Content Creation Project
- November 2021 • Produced Metaverse VR Content (Virtual Visit Experience Service) for the Korea Broadcasting & Communications Foundation
- Selected for the TIPS R&D Program (November 2021 – October 2023)
- January • Applied for 3 Intellectual Property Rights (Copyrights) / 1 Patent Application
- December 2020 • Received the Minister of SMEs and Startups Award

## Interactive Ocean Media Wall

### ArtygenSpace

#### ✓ Content Overview

- It is an interactive media wall created with the theme of “The Ocean and Marine Life.”
- On the left wall, pressing all the randomly arranged letters in the correct order plays a three-dimensional animated video of marine life. A total of five types of marine life are available: crab, whale, dolphin, turtle, and shell.
- On the central wall, a video of fish swimming against an ocean backdrop is displayed. This wall is designed to produce wave effects when touched or dragged. By creating realistic content that recreates the actual underwater world, the wave effects that appear when touching the ocean screen provide an experience as if you are physically touching the seabed.
- On the right wall, a video of marine life and the ocean plays without any interactive elements. The video is projected using the space between windows and doors, creating a visual effect that makes it feel as if you are looking out at the ocean from inside an aquarium or a submarine.

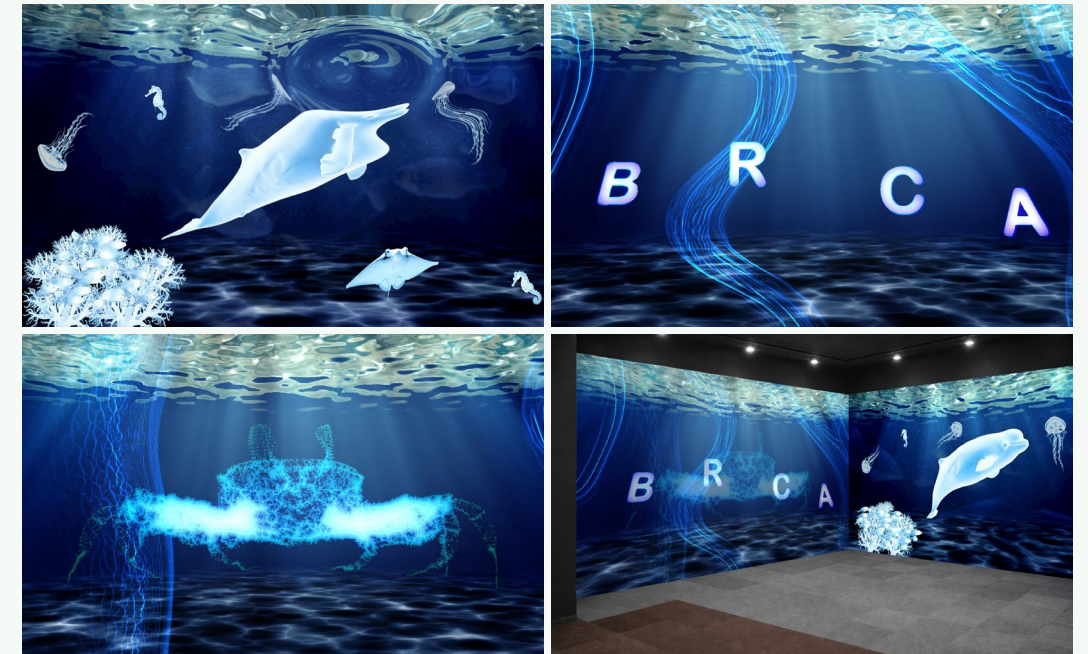
#### ✓ Applied Technologies

- This XR showroom content uses spatial interaction technology that combines LiDAR-based coordinate recognition with real-time graphic rendering.
- We have implemented an environment where the entire wall surface can be utilized as a single interaction area. User touch and selection inputs are not limited to a single object; they are reflected in real-time across background graphics and visual elements throughout the space.  
Not only the content results, but also the background environment itself changes, as if rippling, providing immersive visual effects in which the entire space responds organically.
- Visual generation technology based on Touch Designer was applied for graphic implementation. The forms and movements of marine life are expressed naturally and vividly-despite being digital video-using noise, distortion, and animation effects. They function as key elements that shape the atmosphere and rhythm of the space. This enables spatial staging that goes beyond simple visual presentation, enhancing the density of the experience.

- By integrating TouchDesigner with the programming language Python to construct an interaction event control structure, we have secured a system architecture that facilitates flexible management of visual effect changes based on touch input, control of content flow, and event trigger management, while also making content modification and updates easy.

### Business Direction

- We designed it as expandable XR interaction content that allows flexible reconfiguration of themes, rules, and graphic elements based on spatial purpose, enabling its application across diverse business environments, such as exhibitions, education, tourism, and commercial spaces.
- We plan to verify on-site operational suitability and user response through XR showroom demonstrations. Based on this, we will identify B2B partnerships with institutions and companies to commercialize a space-specific construction and operation model (Planning–Production–Application–Operation).
- In the future, we intend to standardize the product into package types (Basic/Expandable) tailored to industry needs. We aim to promote sustainable use and expansion by establishing a system for campaign and seasonal operations, as well as for content updates.
- To minimize the operational burden on adopting institutions, we plan to modularize the scope of installation, operation, and maintenance. We will also provide operation manuals and content management standards from the perspective of space operators. Through this, we aim to establish a system that enables stable operation regardless of the proficiency of on-site personnel. The introductory phase aims to expand the market by pursuing a phased expansion strategy that involves jointly verifying industry-specific applicability and performance indicators through pilots (PoCs) and short-term campaign-based implementations, followed by multi-branch expansion and long-term operational contracts, establishing a structure capable of iterative deployment based on standard packages.



# ArtygenSpace

# Artygen Space

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**Homepage** www.artygenspace.com  
**Business** Interactive Content and Solution Development, AI/XR Combined Solution and Content Service

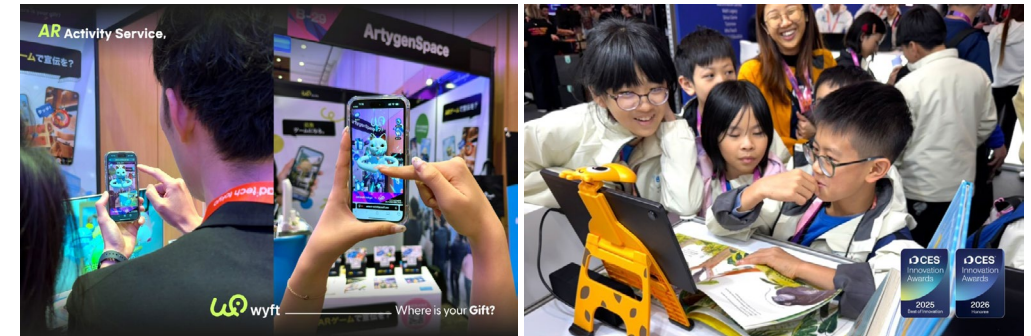
## Company Overview

### XR in Daily Life with AI; XR Intelligence

- ArtygenSpace is an interactive media content company based on the convergence of AI and AR. We design participatory XR experiences that go beyond the limitations of content and spatial experiences, remaining centered on viewing, where graphics and spatial atmospheres respond in real-time to the user's touch, selection, and movement. We provide operational content that increases visitor influx, dwell time, and spatial attention across various fields such as exhibitions, culture, education, tourism, and brand experiences. Through an integrated internal structure encompassing planning, design, technology implementation, on-site application, and operation, we ensure rapid customization and high quality. We extend textbooks, books, manuals, and physical spaces into digital interactions to help people see, learn, and interact more naturally and intuitively. Based on our product lineup of the arti engine, we are accumulating domestic pilot results as references and growing into an XR solution company capable of expanding to global applications.

## Core Technologies

- ArtygenSpace's products (bookar.ai, wyft, wyft-web, A-MAN) are developed based on arti, our proprietary technology engine that won a CES Innovation Award. arti enables stable XR interactions in various spaces by integrating image and spatial recognition, user input detection, real-time AR synthesis and rendering, event processing and rule-based content deployment, and a web-based delivery structure. bookar.ai enhances reading immersion by recognizing book images and projecting 3D AR elements, such as characters and animations, onto the books, while wyft applies AR to gift exchange experiences for campaigns and events. wyft-web provides AR interactive game content on the web without the need for app installation, and A-MAN supports standardization and error reduction by integrating step guidance, verification, and monitoring at manufacturing sites.



## History

- December 2025**
  - Received the 2025 Korea Enterprise Awards
  - Acquired Seoul-type Small Giant Certification
- November**
  - Launched AI-based Immersive Manufacturing Management Solution AMAN
  - Received CES Innovation Awards for booxtory 2.0
- October**
  - Launched AI-based Reading Service booxtory at Gyeonggi Library
- April**
  - Officially Launched Immersive Gift Service wyft
  - Received Commendation from the Minister of Science and ICT at World IT Show 2025
- November 2024**
  - Received Commendation from the Minister of Trade, Industry and Energy for Contribution to Technological Innovation in the Knowledge Service Industry
  - Received Innovation Awards at CES 2025 with "arti"
  - Received Best of Innovation Awards at CES 2025 with "booxtory"

- December 2023** • Received Innovation Awards at CES 2024 with “ARpedia”
- February** • Launched ‘bookar’ service and began Korean kindergarten services
- January** • Received Innovation Awards at CES 2023 with “ARpedia”
- December 2022** • Received Venture Company Certification
- April** • Attracted Investment (Strategic Investment)
- January** • Received Innovation Awards at CES 2022 with “ARpedia”
- May 2021** • Signed agreement as a Participating Organization for the Ministry of Trade, Industry and Energy’s “Knowledge Service Industry Technology Development Project.”
- February** • Launched Augmented Reality Reading Platform ARpedia Service

# 4

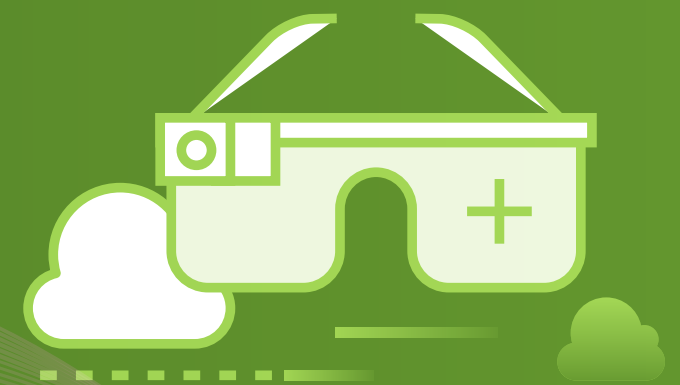
## Korean-Made Devices

### Korean XR Device Experience and Rental Service

Gumi Electronics & Information Technology Research Institute

### [Metalense] Korean XR Devices for Industrial Convergence

P&C Solution, LetinAR



## Korean XR Device Experience and Rental Service

### Gumi Electronics & Information Technology Research Institute

#### ✓ Content Overview

- ▶ The XR Device Lab is a space established to lead the global XR device and metaverse market by promoting the excellence of domestic products through the exhibition and hands-on experience with various finished and prototype XR devices, and by enabling the creation of metaverse content through a rental service for Korean XR devices.
- ▶ This space offers opportunities to experience finished and prototype Korean XR devices and provides a rental service that lets users run and test metaverse content directly on these devices. We also aim to provide a venue for experiencing a diverse range of Korean XR devices by continuously updating on devices under development and to be released in the future.

#### ✓ Applied Technologies

##### ▶ Devices Available

- **PNC Solution:** METALENS, METALENS 2, A21M, W21M
- **MediThinQ:** MediThinQ metascope
- **Panovision:** PV-F200, PV-F201
- **ElvisionTech:** AS-GERI01, XR90, XR100
- **Penacea:** GTM-200, GTM-300, GTM-1000
- **ACTS:** AI-Smart-100
- **Prazen:** PR-T1
- **KAON Media:** KXR device
- **Linkflow:** XR device-linked 360-degree neckband camera
- **RAONTECH:** Raon C3
- **Lenovo:** ThinkReality A3
- **ALL-IP Information & Communication:** DragonEye 8K
- **(Foreign-Made)** INMO Air, Dream glass 4K, Magicleap 1, Rokid Air, VIVE Flow, Glow, quest2, Revverb VR G2

#### ✓ Business Direction

- By expanding market scopes into education and entertainment, focusing on the B2B market in fields with high XR utility, such as XR-based smart factories, medical, and military, we will lead the global metaverse market along with the widespread adoption of Korean XR devices.



# Gumi Electronics & Information Technology Research Institute



(eXtended Reality Device development support Center)

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xrdc.or.kr (eXtended Reality Device development support Center)

**Industry** Research and Development, Technology Tests

**Business** Display, Semiconductor, Virtual Convergence

## Company Overview

- Secured the world-class XR device commercialization technology and fosters global small giants
  - Supports the development of core XR device components and the commercialization of finished products
  - Supports XR device performance and reliability evaluation
  - Operates XR enterprise support programs

## Core Technologies

- Microdisplay development support
- Commercialization of optical module development support
- Sensor and driver board development support
- XR testing and performance evaluation support

## History

- 2022**
  - Opened Northeastern Regional Metaverse Hub
  - Opened KT 5C TEST Open Lab
- 2020**
  - Opened eXtended Reality Device development support Center
  - Began Korea's first 5G test bed service in earnest
- 2017**
  - Designated as an official EMC testing laboratory by Hyundai-Kia, Renault Samsung, and SsangYong Motor
- 2016**
  - Acquired 2G and 3G testing accreditation from global telecommunications provider Nokia

**XR 디바이스 글로벌시장 선도 및 세계 Top 3 강국 도약**

메타버스 기술 선도를 위한 "XR 디바이스" 기술경쟁력 강화 및 산업생태계 구축

XR 디바이스 상용화 및 핵심기술 개발지원

구동 보드, 디바이스 패키징, 광학 모듈, ToF 센서, 마이크로디스플레이

XR 디바이스 완제품 상용화 지원	시험 성능평가 지원	인프라 구축	기업지원 프로그램 운영
<ul style="list-style-type: none"> <li>XR 완제품 제작 지원사업</li> <li>마이크로디스플레이 개발지원</li> <li>상용화 광학모듈 개발지원</li> <li>센서·구동보드 개발지원</li> <li>어셈블리 패키지 개발지원</li> </ul>	<ul style="list-style-type: none"> <li>상능평가 지원</li> <li>신뢰성 시험평가 지원</li> <li>안전성 평가 지원</li> <li>디바이스 가이드라인제·개정</li> </ul>	<ul style="list-style-type: none"> <li>기술개발 장비 인프라 구축</li> <li>기업 입주공간 운영</li> <li>수도권 거점 서비스 공간 구축</li> </ul>	<ul style="list-style-type: none"> <li>온라인 기업지원 서비스 제공</li> <li>마케팅·홍보 지원</li> <li>XR 디바이스 기술 교류회 개최</li> </ul>

# [Metalense] Korean XR Devices for Industrial Convergence

## P&C Solution

LetinAR

### Content Overview

- XR devices are futuristic gadgets capable of enhancing efficiency across various industrial sectors by allowing users to view the real world through a transmissive optical system while simultaneously augmenting necessary information or content onto reality.
- The customized XR devices developed through this project have been selected for target industries by grouping diverse sectors into field and lifestyle-oriented industries, and are expected to support various activities within each field.

### Applied Technologies

- Optical System:** An XR-dedicated transmissive optical module enabling simultaneous viewing of XR content and the real world.
- Software:** Consists of APIs for implementing functions at the unit level of the XR device, an Open XR-based integrated XR SDK, and firmware for overall device control.
- Hardware:** Configuration of a standalone hardware system for XR implementation, including interaction sensors, video drivers, interface integration, and communication modules.
- Mechanical Design:** Implementation of an optimized standalone XR device form factor, considering the form factor, user comfort, and reliability for each XR device component.

### Business Direction

#### Indirect Supply Business Model

- Selling XR devices and SDKs as a package
- Selling to companies, etc., that have a demand for XR devices for end services

#### Direct Supply Business Model

- Selling XR devices, SDKs, and XR service content as a package
- Selling directly by packaging service applications tailored to the customer's needs



# P&C Solution



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**Homepage** www.pncsolution.co.kr  
**Industry** Manufacture  
**Business** XR Device, XR Simulator

### Company Overview

#### Beyond The Reality

- PNC Solution specializes in developing and manufacturing XR glass and XR solutions based on AI-applied Spatial Computing technology.
- Since its establishment in 2015, it has moved beyond simple equipment supply to provide comprehensive XR solutions capable of field-oriented verification by internalizing core source technologies in AI-based vision recognition, optical engine design, XR devices, and software.
- Based on the performance and reliability required across diverse industries—including defense, manufacturing, and construction, as well as education, healthcare, and the public sector—it is continuously expanding our B2G and B2B reference base. As an All-In-One XR company encompassing the entire process from planning and development to implementation and operation, we are leading the innovation of the XR ecosystem in industrial settings.

### Core Technologies

- Possesses Korea's only in-house XR device development technology**
  - Develops and manufactures products such as high-performance HMDs and lightweight AR glasses
  - Capable of independently developing and producing finished HMD products in Korea
  - Source optical technologies through core R&D (Free-Form Prism, HOE)
- Provides customized solutions integrating XR devices, specialized service capabilities by sector, and AI software**
  - Defense XR solutions, including the AI Synthetic Training System (STE) platform and the Korean Joint Tactical System
  - Smart factory solutions using AI data, AR glasses, and sensors

- XR solutions for worker training and accident prevention in fulfillment centers and power plants
- Construction of immersive training classrooms and urban XR experience zones
- **Provides UI & UX optimized for AR glasses using AI-based algorithms**
  - AI NPU-based on-device operation: gesture recognition, object recognition, and voice recognition functions
  - Motion recognition, head tracking, and compatibility with various platforms
  - Introduced and developed international standard UI/UX platforms (Qualcomm Snapdragon Spaces, Android XR integration)



## History

- 2024 ● **[XR Glass Business Expansion / Brand Enhancement]**
  - Korea Resources Corporation XR Glass Introduction Project
  - Acquired International Patent for Next-Generation Optical Engine HOE
  - Selected as a Top Enterprise for Daily Life Balance in Korea (Ministry of Employment and Labor)
  - Received the KES 2024 Innovation Award
  - Official Sponsors of the Ministry of Science and ICT 2024 Makerthon
  - Produced Glasses-type XR Glass Prototype (Trademark XRIS)
  - Successfully completed Metaverse-based Recruit Training Development Project
  - Successfully completed Synthetic Environment Training (STE) Project for the Army 3rd Armored Brigade
  - Successfully constructed Tactical Communication Network (TICN) Training Simulator Project
  - Won contract for Joint Firepower Simulator Maintenance (2024–2025) and performed maintenance
  - Won contract for Special Virtual Tactical Training System (2024–2026) and developed the system

- 2023-2022 ● **[Launch of XR Solution / Beginning of Overseas Business]**
  - Signed MOU for AR Glass with Hanwha Systems Personal Combat System Project
  - Selected as an Excellent R&D Innovative Product in 2022
  - Signed MOU for KAI XR Glass Joint Development
  - Received the CES 2023 Innovation Award, Ministry of Land, Infrastructure and Transport, Received Minister of SMEs and Startups Award
  - Proposed participation in U.S. Air Force SBIR AFWOKS project
  - Received 2023 Presidential Commendation for Exemplary SME Entrepreneur
  - Received 2023 Prime Minister's Commendation for Meritorious Service in Science and Technology Promotion
  - Received 2023 Korea Metaverse Industry Association Chairman's Award
  - Received 2023 Minister's Commendation for Meritorious Service in Software Industry Development
  - Received KES 2023 Innovation Award
- 2021 ● **[Launch of XR Glass Business in Full Swing]**
  - Supplied AR Glass for remote collaboration to LG Group companies
  - Registered AR Glass for remote collaboration to SK Group companies
  - Localizing Hanwha Systems IronVision AR Glass
  - Won the XR Air Force training Metaverse platform project
  - Won the LVC drone simulator project
  - Selected as a Baby Unicorn (Korea Startup & Entrepreneurship Foundation)
  - Signed investment contracts with KDB and 4 other institutions
  - Participated in the Metaverse Exhibition (KT Partner Pavilion)
  - Received the NIPA President's Award in the Metaverse sector
- 2020-2019 ● **[XR Glass Advancement]**
  - Received a Plaque of Appreciation from the DAPA Administrator for successful deployment to the Defense Acquisition Program Administration
  - Jointly developed XR solution for medical surgery (Megagen Implant)
  - Started mass production of Joint Firepower Simulator
  - Acquired medical device licensing for surgical AR Glass
  - Received Ministerial Awards from the Ministry of Science and ICT, the Ministry of Culture, Sports and Tourism, the Ministry of Trade, Industry and Energy, and the Chairman of the Korea Commission for Shared Growth
  - Signed MOU for digital content cooperation with Bucheon City
  - Supplied AR Glass for police training
  - Signed investment contracts with Wadiz and Gaia Ventures
- 2018-2017 ● **[XR Simulator Business / Launch of AR Glass]**
  - Attracted Korea Technology Guarantee Fund Investment
  - Passed Joint Firepower Simulator Test Evaluation
  - Developed Medical VR Rehabilitation Simulator

- 2018-2017
  - Supplied Constellation Educational AR Glasses to Yeongyang-gun
  - Won the Grand Prize for Innovation in Korea
  - Acquired Quality Management System Certification (ISO 9001:2015)
- 2016-2015
  - [XR Simulator Business / Launch of AR Glass]
  - Developed Medical Android Device
  - Won the joint contract for Joint Firepower Simulator Development (Defense Acquisition Program Administration)
  - Developed CJ 4DPLEX 4D Device
  - Developed XR Spatial Touch and Gesture Recognition

## LetinAR



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**Business** Manufacturing of Optical Lenses and Optical Lens Modules for Augmented Reality

### Company Overview

- **Management Goal:** We aim to grow into a world-class enterprise by changing the way humanity sees the world and becoming the standard in the AR industry through unrivaled technological capabilities in AR optics, top talent, and effective marketing strategies.
- **Management Philosophy:** Our management philosophy is to make rational, effective decisions tailored to the characteristics of a startup by rapidly identifying key market issues and changes, and by flexibly managing business direction and strategy with a youthful perspective and a listening attitude. LetinAR's management philosophy is to create an organization where both the company and its employees grow together by providing employees with continuous opportunities to take on challenges and a platform to enhance their exceptional problem-solving skills. Based on this foundation, we foster a corporate culture where everyone grows as one team and feels a sense of fulfillment, guided by the principles of mutual respect and trust, autonomy and responsibility, and cooperation and communication.

### Core Technologies

- The AR optical system developed based on Pin Tilt technology, using LetinAR Co., Ltd.'s proprietary Pin Mirror manufacturing technology, is an AR optical system capable of providing brighter, clearer virtual images than competitors, with a thin form factor comparable to the waveguides of existing DOE (Diffractive Optical Element)-based systems. The manufacturing technology for the Pin Tilt AR optical system using Pin Mirror technology is LetinAR Co., Ltd.'s core technology and comprises Pin Mirror coating technology and injection-molded optical lens components.

- By applying the AR optical system produced with this technology, it is possible to realize a small, lightweight, compact form factor in the shape of standard glasses. It offers many advantages and competitiveness, such as high color reproduction, high light efficiency, deep depth-of-field control, the ability to construct a lighter, more compact optical system through the application of plastic materials, and high mass producibility secured through the development of optical lens manufacturing technology using injection molding.



## History

- **November 2024** Received the Presidential Award at the Korea Invention Patent Exhibition
- **October** Received the Minister of Trade, Industry and Energy Award at Photonics Korea 2024
- **December 2023** Selected as a Finalist for the SPIE Prism Award 2024
- **September** Certified for Net New Technology (NET)
- **November 2022** Received the CES 2023 Innovation Award
- **November 2021** Received the CES 2022 Innovation Award

# 5

## Security

### [AROUND] Urban Safety Monitoring and Crisis Response Simulation

Jininfra, Techtree Innovation



## [AROUND] Urban Safety Monitoring and Crisis Response Simulation

Jininfra

Techtree Innovation

### Content Overview

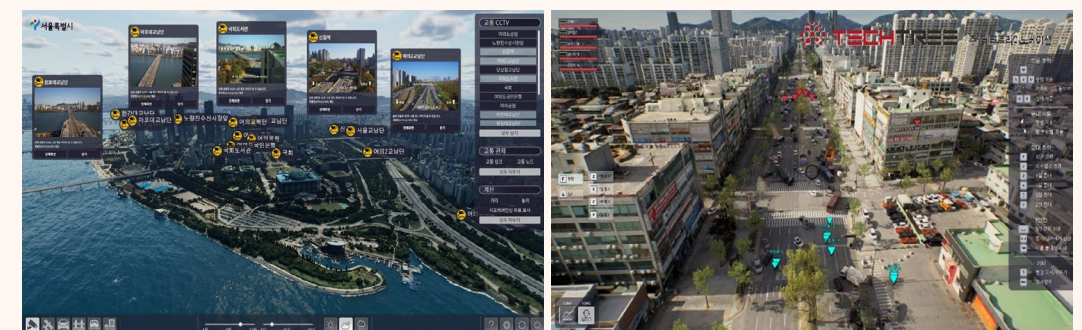
- ▶ This is a high-precision, high-resolution digital twin-based 3D metaverse control platform developed for the safety management of large-scale public facilities and densely populated urban areas. Going beyond the limitations of existing 2D control systems, it utilizes a general-purpose game engine (Unreal Engine 5) to create an ultra-precise digital twin of real-world spaces with an error margin of 10cm.
- ▶ By linking various control assets—such as CCTVs, IoT sensors, drones, and robots—in real-time within the 3D space, it enables 3D situational awareness. Through cloud rendering technology, it provides continuous high-definition control services not only on high-spec PCs but also on low-spec devices like mobile phones and tablets. It is designed to enable systematic response and secure the “golden time” in the event of disasters or crises by incorporating two-way communication features (such as drawing and voice) between the control room and field agents.

### Applied Technologies

- ▶ **High-Precision Digital Twin Construction and Visualization Technology**
  - Construction of 5cm-class ultra-high-resolution digital twins and application of Physically Based Rendering (PBR) using PSM (Photogrammetry Software Mapping) technology and Unreal Engine 5
- ▶ **Real-time Data Integration and Mapping Technology**
  - Real-time mapping and visualization of video and sensing data from heterogeneous devices (CCTV, drones, robots, etc.) based on a 3D coordinate system (Geo-Referencing)
  - Implementation of movement path tracking for specific individuals or vehicles and event notification functions through AI object recognition and Re-ID capabilities
- ▶ **Cloud Rendering and Streaming Technology**
  - Ultra-low latency (<100ms) streaming transmission of large-capacity 3D content to various devices, including mobile phones, using GPUs and proprietary cloud rendering solutions
- ▶ **Bidirectional Interaction Technology**
  - Establishment of an immediate situation sharing and instruction system between the control room and field personnel through real-time text and audio chat, and screen drawing functions

### Business Direction

- **Leading the Digital Transformation of the Public Safety and Security Control Market**
  - Completed the establishment of demonstration references at key national security facilities and large-scale public facilities, and based on this, expanded into public safety sectors such as the police, fire departments, and military units.
  - Carried out projects to upgrade existing 2D control systems to 3D Metaverse control for local governments and agencies currently operating them.
- **Expansion of Industrial Metaverse Platforms and Introduction of SaaS Models**
  - Entered the private safety management market, including construction sites, smart factories, and large building management, to expand into industrial accident prevention solutions.
  - Developed a public cloud-based subscription (SaaS) service model to reduce the burden of initial implementation costs and expand the customer base to include small and medium-sized enterprises (SMEs).
- **Entering Global Markets and Building an Ecosystem**
  - Promoted K-Metaverse technology capabilities by participating in international exhibitions such as MWC and CES, and pioneered overseas market channels through partnerships with global telecommunications companies and security firms.
  - Led the standardization of related technologies and the revitalization of the ecosystem through a consultative body involving the Metaverse Industry Association and participating companies.



# Jininfra



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**Industry** Network Equipment, Wired/Wireless Communications Equipment

**Main Number** +82-2-330-3900  
**Business** Network Design, Development, Maintenance and Repair, Communications Lines and Equipment Rental, Information and Communications Work, Electricity and Fire Prevention Work, Cloud Development, Solution Distribution, etc.

## Company Overview

### Passionate, Creative, and Flexible

- Based on know-how derived from extensive experience, long-accumulated technical expertise, and stability, we fulfill the role of a Total ICT Enterprise by providing services such as the design, consulting, construction, and maintenance of wired and wireless ICT-based networks, customized solutions, public and private cloud services, vehicle information platforms using big data, enterprise mobile solutions, and product distribution.
- As a customer-centric ICT partner, we prioritize the customer and value the role of ICT in connecting people and technology to enhance human value. We are a company that creates new value through ceaseless exploration and unceasing challenges, fostering a dream of the future in which customers and employees grow together.

## Core Technologies

- **Intelligent ICT Infrastructure (NI)**
  - Customized wired and wireless network design and construction
  - One-stop maintenance based on large-scale infrastructure operation know-how
- **Customized Cloud (xTrain Cloud)**
  - Hybrid/Private cloud consulting and construction
  - Provision of managed services for Digital Transformation (DX)
- **Future Smart Cities & AIoT**
  - AI-based urban integrated control and intelligent transportation systems
  - Post-management solutions for IoT pollution control facilities to comply with environmental regulations

## Smart Mobility Platform

- IoT-based vehicle control and corporate car sharing systems
- Operational efficiency solutions through DTG data analysis



## History

- 2025**
  - Acquired Information Security and Personal Information Protection Management System (ISMS-P) Certification
  - Selected as Korea's Top Job Creation Enterprise
  - Received Government Award for Contribution to System Development on the 30th Anniversary of Employment Insurance
- 2024**
  - Relocated Headquarters (Seongnam-si, Gyeonggi-do → Songpa-gu, Seoul)
  - Registered as a Key Telecommunications Operator for the 5G Specialized Network (Eum 5G)
  - Added Medical Device Sales (Lease) and Ultralight Aircraft Operation Business to Business Categories
  - Acquired K-PaaS Technology Certification
- 2023**
  - Certified as a Leisure-Friendly Enterprise
  - Selected as an Excellent Enterprise for Labor-Management Culture Innovation
  - Re-certified as a Gyeonggi-do Excellent Job Creation Enterprise
  - Acquired ISO 14001 Environmental Management System Certification

# Techtree Innovation



**Address** 2F, 24 Banpo-daero 28-gil, Seocho-gu, Seoul  
**CEO** Seung-yup Choi  
**E-mail** techtree0304@naver.com  
**Industry** Information and Communications

**Main Number** +82-2-6951-4420  
**Homepage** www.tt-inno.com  
**Business** Digital Twin

## Company Overview

There is no substitute for us

- TechTree Innovation specializes in high-precision, high-resolution spatial digital twins that accurately replicate real-world spaces on a platform. Based on its proprietary AROUND platform, the company constructs ultra-precision 3D spatial information with a 5cm-level accuracy, surpassing the limitations of existing 3D maps and digital twins. Using Unreal Engine 5, it provides a digital environment identical to reality through features such as heterogeneous data fusion, high-precision collision zone definition, and the application of physical laws.
- In various industrial sectors, including national defense, smart cities, mobility, and real estate, the company creates irreplaceable value through simulations, control systems, and training by integrating real-world and spatial data. Currently, the company is collaborating with major public and private institutions, including the Seoul Metropolitan Government, the Ministry of Land, Infrastructure and Transport, and defense contractors, to establish standards for the global digital twin market.

## Core Technologies

- AROUND, a high-precision, high-resolution spatial digital twin platform, is built using the following technologies and is supplied as three solutions—AROUND twin, map, and view—tailored to specific industries.
- **Implementation of High-Precision Digital Twins and Ensuring Accuracy**
  - Application of Precision Mapping Technology: Generation of urban and wide-area spatial digital twins utilizing using PSM (Photogrammetry Software Mapping) technology, RTK GPS, and GCP
  - Actual Region Match Rate: Achieves a match rate of over 95% with the real environment
  - Ultra-High Resolution Precision: Provides high-precision data with a spatial resolution of within 5cm (maximum 1cm)

- **Implementation of Physics-Based Interactions Using Unreal Engine 5**
  - Application of Collision-Aware Areas: Application of precise collision-aware areas (C collision-aware Modeling) to all objects, including buildings and terrain
  - Real-Environment Physics Simulation: Implementation and simulation of physical phenomena identical to reality, such as gravity, wind, and light (illumination)
- **Data Optimization**
  - Lightweighting and optimization technologies for large-scale spatial data
- **Heterogeneous Data Fusion**
  - Unrestricted System Integration: Supports rapid integration of various external solutions through flexible system design
  - Diverse Data Interoperability: Interface technology for seamless convergence with public data, IoT sensors, AI object recognition data, and various APIs

## History

### Management Achievement

- 2025** • Selected as a Recommended Item for Offset Trade
- 2023** • Designated as a Talent-Fostering SME by the Ministry of SMEs and Startups
  - Selected as an Excellent ESG SME by the Eastern Growth Commission
  - Selected as a Strong Small Business and Excellent Company for the Work Innovation Incentive System by the Ministry of Employment and Labor
- 2022** • Regular Member of the Korea Spatial Information Industry Association
- 2021** • Venture Company Certification

### Collaborations and Projects

- 2025** • Execution of joint projects by Korean Air, KAI, Samsung SDS, SK Telecom, ETRI, Remoshot, etc.
  - Signing of MOUs with SK Telecom-Awesomevely, Remoshot, Korea Artificial Intelligence Convergence Association, Strynova AI (Dubai), Oregon Department of Aeronautics (USA), Seokyeong Industry, etc.
- 2024** • Signing of MOUs with Seoul Metropolitan Government, HBFQ, SK Telecom, BETU, BOM Tech, Kozee Group, etc.
  - Korean Air: Development of UAM aviation/air traffic control simulators
  - ETRI: Joint research on military training simulations
  - KT: Construction of digital twins for Gangnam and Hongdae districts
  - Seoul Metropolitan Government: Construction of ultra-realistic digital twins (entire Yeouido area)

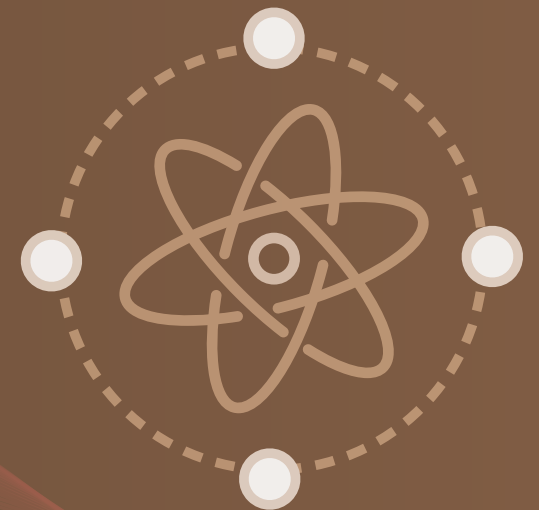
- 2024 • KAI: Participation in KUH-1 Surion simulator development
- 2023 • Construction of a digital twin for the Daejeon Government Complex (25km<sup>2</sup>)
- Construction of a digital twin for the Anyang Pyeongchon area (49km<sup>2</sup>)
- Signing of an MOU with Boltline

# 6

## Nuclear Fusion

### Digital Twin-Based Fusion Energy Facility Operations Fire Ladder Truck Operation Training Content

Tritech, VRMEDIA, Korea Institute of Fusion Energy



# Digital Twin-Based Fusion Energy Facility Operations Fire Ladder Truck Operation Training Content

TriTech

VRMEDIA, Korea Institute of Fusion Energy

## Content Overview

- Implementation of 3D spatial information analysis and modeling of the KSTAR fusion device; visualization processing of plasma experiment data using a physics engine, simulation, and incorporation into experiments; enhancement of experimental result interpretation capabilities; and advancement and expansion through integrated communication tools and increased experimental efficiency.
- The fire ladder truck operation simulator is designed to train and practice firefighters in effectively operating ladder trucks at actual fire scenes. This simulator mimics real-world environments and virtually provides the skills and procedures necessary for ladder truck operation, helping trainees prepare for real-life situations.

## Applied Technologies

### Digital Twin\_Virtual KSTAR

- Volume Rendering of KSTAR Main Device
- Real Time Monitoring System (RMS)
- Post Analysis System (PAS) of Experiment & Simulation
- 3D Analysis of Heat Sources via Virtual KSTAR NBI
- Visualization of 3D Vacuum Field and Eddy Current Calculations
- 3D Analysis of Virtual KSTAR's ECH and RMP
- Real-time Visualization of Superconducting Magnet Operating Status

### Development of a Training Program for a Real Fire Ladder Truck

Ladder Truck Control

- LFTS is designed to replicate the environment of actual firefighting special-purpose vehicles, enabling trainees to engage in realistic driving practice.
- Both hardware and software are provided to develop the ability to take quick action in on-site situations, featuring panels identical to those found on real fire ladder trucks.
- Guarantees maximum functionality and convenience, given that it is for training, enabling many people to receive effective training.

Multiple Training Scenario

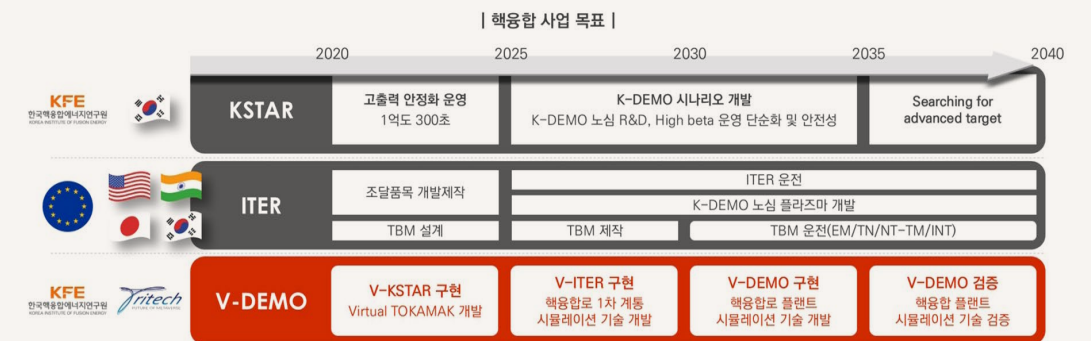
- Provides various training scenarios to enhance trainees' ability to operate ladder trucks in diverse situations and environments.
- Provides training scenarios through consultation with firefighting experts.

Test Mode

- Allows training in both fire and non-fire situations.
- Reflects various real-world environmental factors, such as shaking caused by changes in the natural environment (e.g., snow, rain, wind).

## Business Direction

### Advancement of Nuclear Fusion Digital Twin



\* ITER (International Thermonuclear Experimental Reactor): 국제핵융합실험로 우리나라를 포함해 미국, 러시아, 유럽연합, 일본, 중국, 인도 등 7개국이 참여하는 국제사업으로 프랑스 남부 카다라쉬 지역에 건설 중

- Collaborate with manufacturers on developing firefighting ladder truck operation tactics, conduct in-house testability evaluations, and carry out sales
- Plan to sell alongside the company's own products
- Currently collaborating with the fire ladder truck manufacturer, Everdigm

## 훈련 시나리오

### 1 차량 선택



**고가사다리차**  
소방 특징차 차체에 부착된 고가 사다리를 확장, 고층 화재 진압 및 인명구조를 지원하는 차량



**굴절사다리차**  
굴절 가능한 관절 부위가 장착되어 고가 사다리차로 접근하기 어려운 환경에 접근하기 용이한 차량

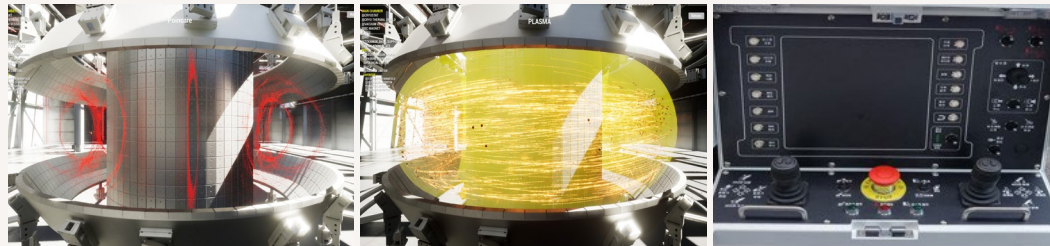
### 2 훈련 환경 선택



다양한 훈련 환경 대응을 위해 시간, 날씨를 선택하여 훈련 가능

- 시간 2종(낮, 밤) 선택
- 날씨 4종(맑음, 비, 안개, 바람) 환경 선택

훈련 환경의 종류에 따른 실감 피드백 시뮬레이터에 장착된 모션장치를 통해 기기의 흔들림 및 진동 등을 생성하여 실제와 유사한 피드백을 훈련자에게 제공



Nuclear Fusion Simulation

Fire Ladder Truck Operation Tactics

# Tritech



Address #1105-12, 11F, R&D Tower, Nuritkum Square,  
396 World Cup buk-ro, Mapo-gu, Seoul  
CEO Jae-suk Ki  
E-mail tritech@tritech.co.kr  
Industry Information and Communications

Main Number +82-2-6958-7599  
Homepage www.tritech.co.kr  
Business Digital Twin, M&S (Modeling & Simulation)

## Company Overview

Leading the Future of Science and Technology as an R&D Pioneer in Virtual-Real Convergence

- TriTech has a strong team and extensive experience in edge technology for R&D. Leveraging differentiated technological capabilities in virtual/augmented reality, digital twins, and the metaverse, we have successfully executed numerous high-quality projects and provide comprehensive solutions and technical support in Korea through reliable cooperation with groups across diverse fields.

## Core Technologie

FUTURE OF METAVERSE  
**OUR STRENGTH**

**OUR → STRENGTHS**

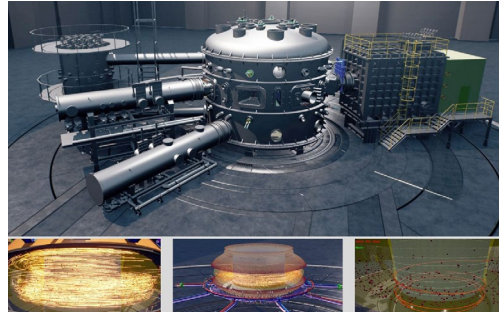
현실과 비현실이 모두 공존할 수 있는  
폭넓은 분야 구현 설계



**Future of Metaverse**

미래의 가상세계를  
선도합니다.

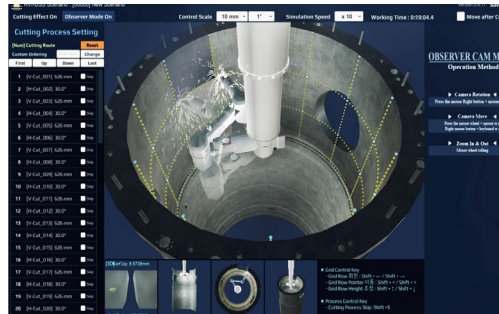
Digital Twin



VR Simulation



M&S, ICT



AR Simulation



History

- 2025
  - Developed an Open Fusion Platform
  - Enhanced the Virtual International Fusion Reactor Fusion Platform
- 2024-2023
  - Developed a Firefighting Ladder Truck Operation Simulator
  - Multilateral Digital Twin Research Support Platform Service in a Metaverse Environment
- 2022-
  - Virtual KSTAR Experiment Monitoring and Simulation Analysis
  - Software Development for Function Implementation
- 2021-
  - Developed a Non-Face-to-Face Studio Platform for 3D Animation Production

VRMEDIA



Address #1120-1122, 225 Gasan digital 1-ro,  
Geumcheon-gu, Seoul  
CEO Woo-rak Jung  
E-mail info@vrealtymedia.com

Main Number +82-2-6242-8416  
Homepage www.vrealtymedia.com  
Industry Information and Communications  
Business VR

Company Overview

At the intersection of the virtual and physical, we build immersive solutions to connect everyone to a new digital world

- We are a specialized VR/AR production company with many years of experience producing high-quality VR/AR content.
- We create the highest-quality immersive content by leveraging effective technology and producing high-quality virtual and augmented reality content, working alongside professional personnel with extensive production experience in planning and developing over 1,000 exhibition pieces.

Core Technologies

- As a leading Korean company specializing in virtual and augmented reality content and distribution, we possess advanced technical capabilities based on diverse project experience, ranging from the production of immersive content, VR experience zones, and educational and promotional VR/AR exhibition content to the creation of educational content.

**VR/AR 실감콘텐츠 제작**

- 충북지식산업진흥원 AR 반도체 교육 프로그램
- 2019세계수영선수권대회 광주과학관체험존 실감콘텐츠
- 대통령 경호처 선발사격 VR 시뮬레이터 체험 콘텐츠
- 고성 공룡엑스포 체험 콘텐츠

**VR/AR PRODUCTION**

**DIGITAL TWIN**

- 현실세계의 공간을 가상현실에 동일하게 구현하여 현실에서 어려운 다양한 모의 시뮬레이션을 무한정으로 실행할 수 있습니다.

**VR 디지털 트윈**

- 디지털트윈 AR 트랙터 매뉴얼
- "소모용 부품교체" AR 분해조립 매뉴얼
- 트랙터 부착형 무궁화 명숙 배수 기술 교육 매뉴얼

**메타버스 전문교육 플랫폼**



- 아주대학교 반도체학과 반도체 제작공정 메타버스
- 청주대학교 간호학과 핵심기술기
- 가상현실 메타버스 비대면 실습수업
- 학생관리를 위한 CMS 시스템 적용

**핵심기술교육**



**반도체 제작공정**



METAVERSE

SIMULATOR

- VR 콘텐츠와 연동되는 하드웨어를 제작하여 더욱 몰입감 있는 가상현실을 경험할 수 있도록 지원하고 있습니다.

**하드웨어 제작**



**360도 카메라 제작**



- VR 360도 카메라 제작
- 재활치료를 위한 하드웨어 제작

- February ● Acquired venture company certification
- November 2017 ● Information infrastructure services, information systems, and packaged software development services
- Provided direct production in the Video Production Service Sector
- Established affiliated research institute
- September 2016 ● Established 'VRMEDIA Co., Ltd.'

## History

- November 2023 ● Developed VR-based driver education and training system for the Army
- May ● Developed Metaverse Biz platform for Chungbuk export companies
- December 2022 ● Developed Metaverse platform and content for Samsung Heavy Industries
- Developed AR-based manufacturing process education platform for Hyundai Motor Company
- August ● Developed Metaverse platform for SIGNIS
- December 2021 ● Produced AR-based manufacturing process field education content for the Korea Automotive Technology Institute
- August ● Certified for the direct production for physical model 'exhibition video'
- June ● Registered copyright for VR semiconductor/nursing skills education Metaverse platform
- May ● Registered patent "AR-based remote support system and method of operation thereof" (Patent No. 10-2259350)
- January ● Expanded and relocated to Gasan-dong office building
- December 2020 ● Participated in VR/AR convergence content development project at Chungbuk Institute of Science and Technology Innovation
- June ● Established VRMEDIA Co., Ltd. branch (located in Cheongju, Chungbuk)
- December 2019 ● Participated in commercialization support for specialized VR/AR content at Chungbuk Knowledge Industry Promotion Agency
- September 2018 ● Registered patent "Security surveillance device and method using augmented reality"
- May ● Registered patent "Virtual reality shooting game device"
- March ● Provided direct production in the software maintenance and support service sector

# Korea Institute of Fusion Energy



Address 169-148 Gwahak-ro, Yuseong-gu, Daejeon, 34133  
 CEO Yeong-kook Oh  
 E-mail -  
 Industry Information and Communications

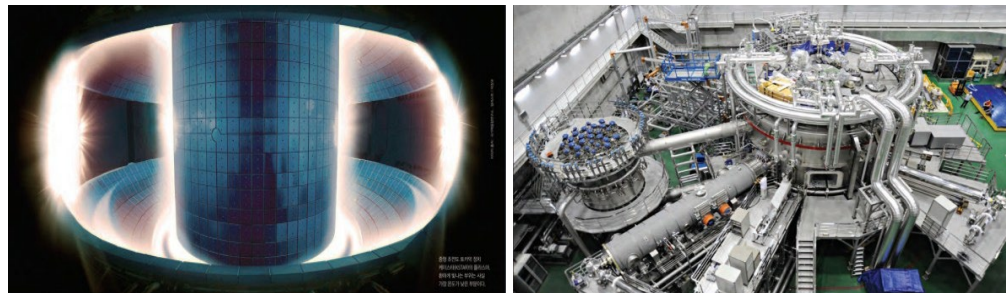
Main Number +82-42-879-6000  
 Homepage www.kfe.re.kr  
 Business Digital Twin/VR, AR, MR, XR  
 Simulation/ICT/Cloud Platform

## Company Overview

- Contributed to the development of the national economy and the improvement of the quality of life for the people by conducting research and development in nuclear fusion energy.

## Core Technologies

- Constructed nuclear fusion experimental devices and developed ultra-high temperature plasma operation technology through the KSTAR operation project
- Developed nuclear fusion reactor construction technology through the ITER joint development project
- Developed future nuclear fusion demonstration reactor technology through nuclear fusion energy engineering research
- Secured source plasma technologies applicable to various industrial fields and creative, practical technologies



## History

- March 2024** • Achieved the world's longest ion temperature operation at 100 million degrees for 48 seconds
- September 2022** • Published in Nature on KSTAR's high-performance operation mode
- December 2021** • Established the 4th Basic Plan for the Promotion of Fusion Energy Development (2022–2026)
- November 2020** • Established the Korea Fusion Energy Research Institute
  - Achieved the world's first ion temperature of 100 million degrees for over 20 seconds
- January 2019** • Completed the Plasma Technology Complex Research Building (Gunsan)
- April 2017** • Received approval for the 3rd Basic Plan for the Promotion of Fusion Energy Development (2017–2021)
- September 2016** • Achieved the world's longest high-performance plasma operation time (70 seconds) with KSTAR
- December 2014** • Completed procurement of 'superconducting conductors' for the International Thermonuclear Experimental Reactor (ITER)
- November 2012** • Opened the Plasma Research Center (currently the Plasma Technology Research Institute) (Gunsan)
  - September** • Successfully conducted the world's first experiment on the ITER control system via KSTAR
- November 2010** • Achieved KSTAR's first high-performance H-mode
- July 2008** • Achieved KSTAR's first 'First Plasma' milestone
- September 2007** • Held KSTAR Completion Ceremony / launched ITER Korea Project Team
- December 2006** • Enacted the Fusion Energy Development Promotion Act
- October 2005** • Established the "National Fusion Research Institute" (KBSI) Affiliated
- June 2003** • Officially Joined the International Thermonuclear Experimental Reactor (ITER) Project
- January 1996** • Launched the Fusion Research and Development Corporation and Commenced the KSTAR Project
- December 1995** • Established the "National Fusion Research and Development Basic Plan"

# 2026 XR SHOWROOM Directory

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**Homepage** [www.nipa.kr](http://www.nipa.kr)

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