

## Meet the AI Startups of Seoul AI Hub

### AI Processors

AiM Future

### Artificial General Intelligence

3R Innovation

acrossB

AMSquare

Bobidi

Catchflow

Groundone

injewelme

Jupiter Labs

Kaier

MOVIC Lab

NationA

NetLOX

Piloto

PinotLab

Teddysum

Tilda

Toonsquare

TwoWhy

VAIV AI

### Data Processing

AI Guru

AiNEWT

Croft

CUBIG

HyperEZ

Impactive AI

MACHUDA

OnlTKOREA

Plask

SNE Company

SNPLab

Tryfifty

Vibezone

WorksBe

### Intelligent Agents

BLAST

Good & Wise

StyleAI

Vdigm

### Language Intelligence

Aardvark

Data B

Swevenz

VODABI

### Medical AI

Deargen

DiaVision

Gloud

Monit

Prevenotics

the Little Cat

VIRTRIS

W.AI

### Robotics

Macroact

Starpickers

Wave Lifestyle Tech

### Visual Intelligence

4DIVISION

AIDICOME

AIVeNautics

CITYEYELAB

Cleverus

DroMii

Gamer Republic

Goose Labs

iTeXSolution

Litiv

Meraker

Onoma AI

PAI Media Lab

Petpeotalk

PIAspace

PIRECO

REXOLUTION

Studio Free Willusion

Studio Lab

Triplet

Visual Camp

WiSH

### Voice Intelligence

MAGO

The Plan G

## A Global Nexus for AI Innovation, Powered by the Seoul Metropolitan Government



Founded by the Seoul Metropolitan Government in 2017, the Seoul AI Hub has become a cornerstone of AI innovation in the Yangjae area, fostering a vibrant ecosystem of AI talent and startups. Since April 2023, it has been managed by a consortium led by the Seoul National University Industry-Academic Cooperation Foundation and the Electronics and Telecommunications Research Institute (ETRI). Harnessing the technological expertise, research capabilities, and open innovation culture of these institutions, the hub accelerates the growth of AI startups and cultivates the next generation of AI leaders.



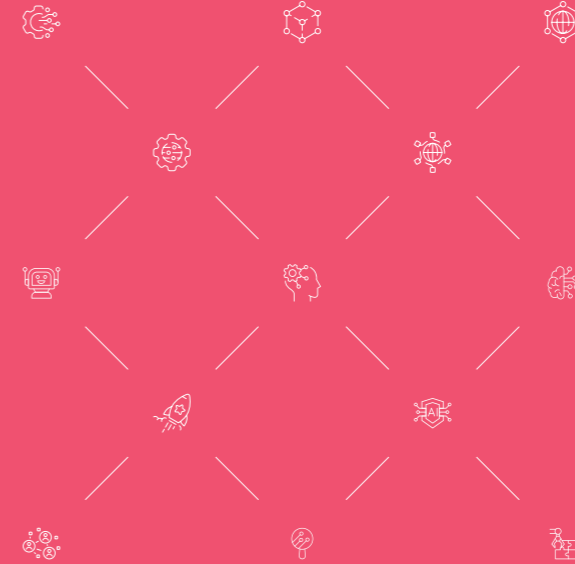
SEOUL AI STARTUP 100

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SEOUL AI STARTUP 100

Seoul AI Hub 2024

# SEOUL AI STARTUP 100



**aihub**  
SEOUL AI HUB

At the heart of Korea's AI ecosystem,  
the Seoul AI Hub empowers visionary  
startups driving innovation forward.



# SEOUL AI STARTUP 100

SEOUL AI STARTUP 100

Seoul AI Hub 2024

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SEOUL AI STARTUP 100

Seoul AI Hub 2024

## About Seoul AI Hub

Seoul AI Hub's Vision: An Interview with the Chief	10
Meet the AI Startups of Seoul AI Hub: Success Stories & Innovations	16

## Meet the AI Startups of Seoul AI Hub: Success Stories & Innovations

### Visual Intelligence

<b>4DiVISION</b> - Unmanned Automation Solutions Using AI 3D Vision Sensors	24
<b>AIDICOME</b> - Holographic Pet Avatars Based on AI	28
<b>AIVeNautics</b> - Maritime Navigation with Specialized Vision AI for Small Object Detection	32
<b>CITYEYELAB</b> - Collecting and Analyzing Traffic Video Data Based on AI for Traffic Insights	36
<b>Cleverus</b> - AI Video Processing for Risk Prevention	40
<b>DroMii</b> - AI Spatial Solutions with Drones and Satellites	44
<b>Gamer Republic</b> - AI-Powered Real-Time Game Coaching	48
<b>Goose Labs</b> - Revolutionary Home Workout App Based on Vision AI	52
<b>iTexSolution</b> - Powering the Digital Transformation of Educational Content	56
<b>Litiv</b> - AI Sports Data Analysis App That Requires No Sensors	60
<b>Meraker</b> - Portable AI Diagnostic Camera for Ophthalmic Diseases	64
<b>Onoma AI</b> - AI Webtoon Creation from Story Planning to Drawing	68
<b>PAI Media Lab</b> - AI Camera for Real-Time Tracking of Workers and Heavy Equipment in Factories	72
<b>Petpeotalk</b> - AI Pet Cam Service for Behavior and Health Analysis with a Smartphone	76
<b>PIAspace</b> - Multi-Modal AI-Based CCTV Solution	80
<b>PIRECO</b> - Painless Registration of Pets for Biometric Identification Without Biimplants	84
<b>REXOLUTION</b> - Automated Semiconductor Circuit Inspection with Vision AI	88
<b>Studio Free Willusion</b> - AI Video Production at a Fraction of the Cost	92
<b>Studio Lab</b> - Producing Product Detail Page within 30 seconds for E-Commerce	96
<b>Triplet</b> - AI-Driven Camera Analysis that Identifies Gender, Clothing, Behaviors, and More	100
<b>Visual Camp</b> - Determined to Become the First Mover in AI-Driven Eye-Tracking Technology	104
<b>WISH</b> - Markerless 3D Multi-Person Motion Capture Solution Using Only Cameras	108

### Language Intelligence

<b>Aardvark</b> - AI-Generated SAT-Style Mock Exam Questions and Distractors	114
<b>Data B</b> - AI-Powered Writing Assistant for Native-Level English Anywhere	118
<b>Swevenz</b> - AI-Driven Consumer Keyword Analysis for Marketing Insights	122
<b>VODABI</b> - AI Conversation Analytics for Improved Sales Performance	126

### Voice Intelligence

<b>MAGO</b> - AI Voice Analysis for Mental Health Management	132
<b>The Plan G</b> - AI-Powered English Learning App Using the "Teach-to-Learn" Method for AI Characters	136

### Data Processing

<b>AI Guru</b> - Facilitator of AI Adoption in the Manufacturing Industry	142
<b>AiNEWT</b> - Optimizing AI Model Performance with Data Quality Inspection and High-Speed Search	146
<b>Croft</b> - Greenhouse Optimization Solutions to Change the Agricultural Paradigm	150
<b>CUBIG</b> - Secure Synthetic Data Generation with Meaning Preserved	154
<b>HyperEZ</b> - Comprehensive Support for 3D Model Data from Planning to Supply	158
<b>Impactive AI</b> - Optimizing Inventory Management by Forecasting AI Demands	162
<b>MACHUDA</b> - Creation of an Efficient Digital Learning Environment	166
<b>OnITKOREA</b> - Platform for Optimized Moving and Freight Transport Using AI Algorithms	170
<b>Plask</b> - Lowering the Barriers to 3D Animation Production	174
<b>SNE Company</b> - AI-Powered Forecasting for Crop Yields and Prices	178
<b>SNPLab</b> - Secure On-Device MyData Storage Platform	182
<b>Tryfifty</b> - Assistance for Software Development and Planning	186
<b>Vibezone</b> - Finding Images of Your Favorite Idol Singer's Specific Outfits and Performances	190
<b>WorksBe</b> - Simplified and Optimized Job Matching with a Single Click	194

# Contents

## Artificial General Intelligence

<b>3R Innovation</b> - AI-Powered Attention and Mental Health Care for Youth	200
<b>acrossB</b> - Global E-Commerce Logistics Solutions	204
<b>AMSquare</b> - Performance Management for AI Models with Real-Time Monitoring	208
<b>Bobidi</b> - A Company-Customized Employee Training Platform with AI and Machine Learning	212
<b>Catchflow</b> - Democratization of Directional Sound Solution	216
<b>Groundone</b> - Optimizing Energy Efficiency of Buildings with AI	220
<b>injewelme</b> - Mission-Based Gamified Preventive Health Management Service	224
<b>Jupiter Labs</b> - Optimized Fashion Logistics Solution Using Dongdaemun Fashion Data	228
<b>Kaier</b> - Enabling Even Non-Experts to Build AI with a Single Click	232
<b>MOVIC Lab</b> - Diagnosis and Forecasting of Faults in Manufacturing Equipment Using Ultrasound Acoustic Data	236
<b>NationA</b> - Creating Motion Data with Generative AI with Contextual Awareness	240
<b>NetLOX</b> - Cloud-Native Open-Source Software to Establish Network Infrastructure	244
<b>Piloto</b> - Forming Healthy Smartphone Usage Habits with AI App	248
<b>PinotLab</b> - AI Data Analysis Platform for Comparing Bottled Water	252
<b>Teddysum</b> - Automatic Writing Evaluation with a Korean-Specialized LLM	256
<b>Tilda</b> - Optimizing Business Decisions with Predictive Algorithms	260
<b>Toonsquare</b> - Empowering Everyone to Become an AI Creator	264
<b>TwoWhy</b> - AI and AR Solution That Eliminates Price Inflation in Interior Materials	268
<b>VAIV AI</b> - Enabling Hyper-Personalized Product Development with AI Deep Learning	272

## Intelligent Agents

<b>BLAST</b> - Streamlining Operations with Customized AIOps Business Solutions for Corporations	278
<b>Good &amp; Wise</b> - CSAT Korean Prep with Generative AI	282
<b>StyleAI</b> - Fashion AI that Handles Everything from Designs to Models	286
<b>Vdigm</b> - Creating Immersive AI Virtual Avatars that can Interact with Fans	290

## Robotics

<b>Macroact</b> - A 24/7 Elderly Care Platform Using Autonomous Robots	296
<b>Starpickers</b> - IoT-Integrated Comprehensive Mobility Safety and Control Service	300
<b>Wave Lifestyle Tech</b> - A Kitchen Robot That Cuts Labor Costs by 80%	304

## Medical AI

<b>Deargen</b> - Developing Novel Drugs by Predicting Compound Binding Using AI	310
<b>DiaVision</b> - Disease Analysis and Management Using Personal Biometric Data Measured and Collected from Smartphones	314
<b>Gloud</b> - AI-Powered Oral Data Analysis to Manufacture Prosthetics	318
<b>Monit</b> - Caring for All Ages from Infants to the Elderly with Technology	322
<b>Prevenotics</b> - AI-assisted Cancer Prevention and Management	326
<b>the Little Cat</b> - Improving Pet Health and Welfare Using Data	330
<b>VIRTRIS</b> - Development of Novel Drugs with Multi-Omics Data Analysis	334
<b>W.AI</b> - AI Solution for Diagnosing Breast Implants Using Ultrasound Imaging	338

## AI Processors

<b>AI Future</b> - AI Chip Solutions Tailored to Customer Needs	344
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# SEOUL AI HUB

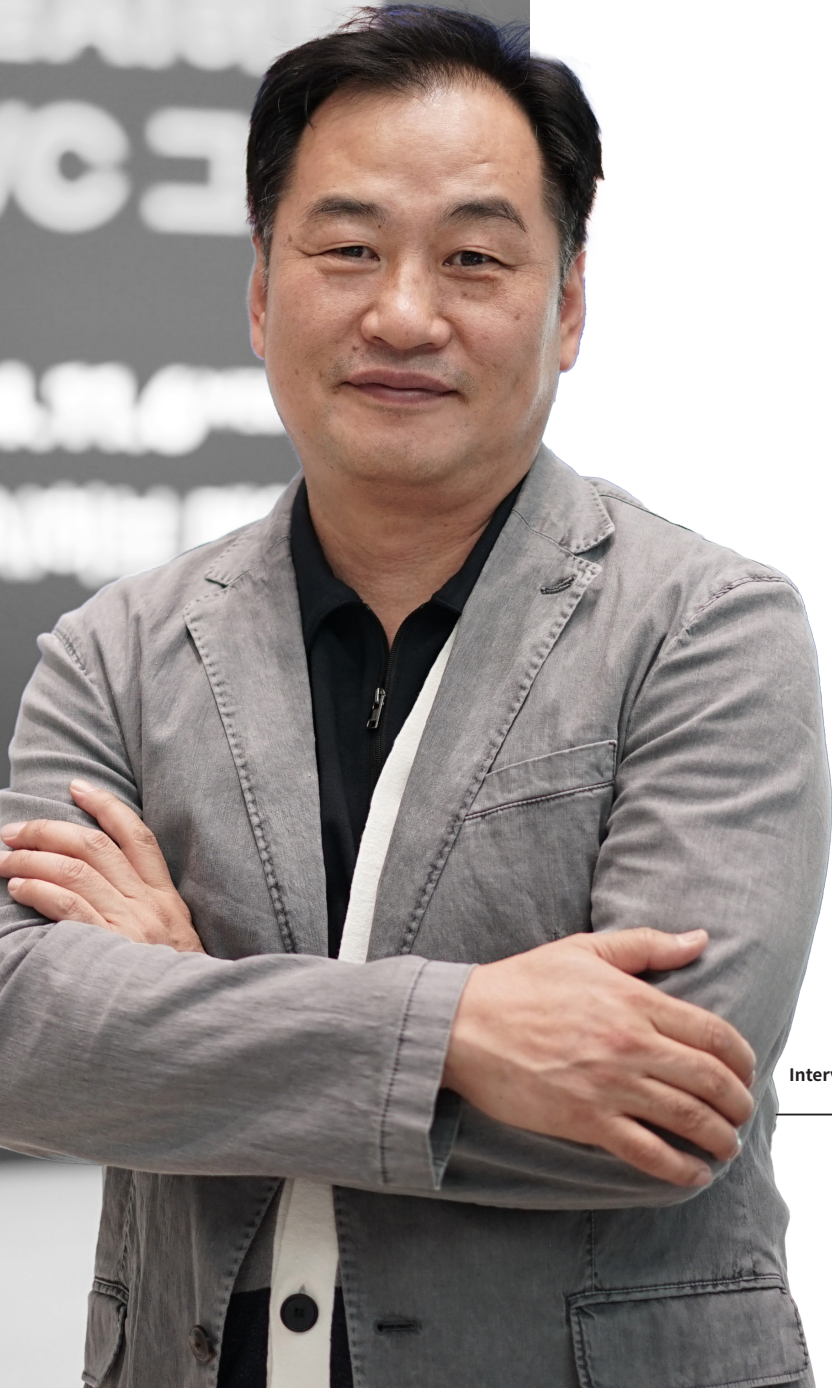


## About Seoul AI Hub

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Seoul AI Hub's Vision: An Interview with the Chief  
Introducing Seoul AI Hub

## AI Startup Growth: The Key to a Thriving AI Ecosystem



Interview with Chanjin Park  
Chief of Seoul AI Hub

The Seoul AI Hub plays a key role in building an AI ecosystem focused on supporting AI startups. With the recent designation of Seoul's Yangjae area as a special AI district, the hub's role has become even more crucial.

Following the completion of a key facility for industry-academia-research collaboration in May, several leading institutions, including the National AI Research Lab, AI Global Research Collaboration Center, Air Force AI Technology Convergence Center, and KAIST AI Graduate School, have relocated there, fostering collaboration among businesses, academic institutions, and research centers.

“The Seoul AI Hub is a central hub for expanding the AI ecosystem, particularly for technology startups,” said Chanjin Park, the chief of Seoul AI Hub. To drive this vision forward, the hub is committed to promoting AI technology innovation and research support, startup operation and infrastructure support, investor matching and global market expansion, fostering entrepreneurship and talent development, and the integration of AI in industries.

### What initiatives has the Seoul AI Hub pursued this year?

This year, we launched the AI+X Convergence Expert Training Program and global collaboration initiatives. AI+X is an educational program designed to promote AI adoption by industries, and "X" represents any target industry. A key aspect of this program is that the criteria for participants are set to include industry professionals to achieve practical AI integration and a real-world impact. This year, we focused on robotics and healthcare.

For the global collaboration initiative, we selected seven startups and sent them to Mila, an AI research institute in Quebec, Canada, to build research partnerships. These companies established legal entities in Canada and took part in various events led by Mila.

One of our key initiatives was the Seoul AI Fellow program, which connects professors in the AI field with startups. This year, we partnered with the Korea Artificial Intelligence Association and the AI Society of the Korean Institute of Information Scientists and Engineers (KIISE) to receive support from professors in addressing startups' issues and helping out with their research.

For instance, companies with large datasets received guidance from professors on leveraging their data effectively. In fact, many companies were attracted to this approach. We have also set up educational programs in healthcare and robotics. Specifically, in healthcare, we have developed programs in collaboration with institutions such as the Seoul National University Hospital National Specialized Research Institute, which joined the Seoul AI Hub.

**The Seoul AI Hub seems to have taken a more proactive approach in supporting various initiatives this year.**

“The initiatives we pursued this year reflect our commitment to taking a more active role as well. Typically, startup programs only focus on connecting companies with academia or other businesses. However, we wanted to go beyond that and create opportunities not only for resident startups but for AI startups throughout Korea.

In the future, we will continue to support startups with investment matchmaking, education, and research collaborations, while also incorporating AI-focused programs and global partnerships to strengthen the AI ecosystem.”

**Since 2017, the Seoul AI Hub has incubated numerous AI startups.**

**They must have grown significantly over the years. Which companies stand out?**

“Some startups have been with us since the beginning, while others have joined recently. Over time, we have seen significant advancements in both technology and commercialization. For example, CUBIG, a company focused on synthetic data as a service model, has gained so much attention that it can now choose its investors.

Visual Camp, a leader in eye-tracking technology, successfully developed and commercialized its products while based at the Seoul AI Hub. PIAspace, which specializes in multi-modal AI-powered CCTV monitoring, now provides services to Singapore Changi Airport, Coupang, and more. These companies aren't only developing innovative ideas but are also achieving great outcomes with their significant technical expertise.”





**Despite various efforts, Korea's AI startup ecosystem still lags behind those of the United States, Europe and China in terms of startup environment. Moreover, investment remains relatively insufficient.**

"Investment has indeed slowed down, and investors are now more focused on companies that are already generating revenue. Most startups at Seoul AI Hub, as well as many others, are still in the Pre-Series A or Series A stages, whereas revenue generation typically happens at Series B or C. Investing at the Series A level means believing in a company's growth potential. However, to do this, investors need a clear understanding of AI and the ability to assess its business implications.

Another issue is that many investors are waiting for AI technology to mature further before investing. With LLMs evolving rapidly, some believe that it is better to wait until they reach the level of full-scale commercialization. However, this view is based on a misconception. Since the emergence of LLMs, there has been a tendency to regard previous AI technologies as outdated. In other words, they believe that LLMs have completely replaced these past AI technologies.

However, it is important to recognize that the two areas are different. The AI technologies used in industries such as semiconductor manufacturing, defect detection, and predictive maintenance are highly specialized and tailored to solve industry-specific problems, so these cannot be replaced by LLMs.

Meanwhile, LLMs belong to a category of technology

that is trained on knowledge, which means they cannot operate independently.

The future of AI lies in the convergence of multiple technologies. Rather than seeing LLMs as replacements for existing AI, they should be integrated with industry-specific AI solutions to create smarter, more efficient applications. It is important to advance LLMs, but at the same time, we must also continue to develop specialized AI tailored to different industries."

### What the Seoul AI Hub's plans for the future?

"We plan to introduce specialized programs for generative AI in line with the latest AI trends. For example, when we evaluate resident startups, we may give priority to those that incorporate Generative AI. Additionally, we will develop educational programs focused on this emerging field.

We are also preparing an AI Transformation (AX) support program. Our evaluations showed that around 40% of companies currently lack an AI team or technology but plan to hire AI talent and integrate AI into their services within one to two years. While these companies may not be AI startups today, many are committed to adopting AI to transform their businesses, and we want to support that transition.

Technically, these companies do not meet the usual selection criteria. However, by connecting them with AI specialists at the Seoul AI Hub, we see opportunities to create new business models. Since our resident startups have AI expertise, they can assist in developing prototypes or providing technical support. To facilitate this, we plan to introduce AI mentoring, consulting, and collaboration programs to help companies successfully integrate AI into their operations."





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**BUSINESS MILESTONES**

2024	The Seoul AI Hub's key anchor facilities opened (Construction began in May 2021, and was completed in January 2024)
2023	Appointed as a new operating agency (private outsourcing) for the Seoul National University Industry-Academic Cooperation Foundation (AI Research Institute) - ETRI consortium (to date)
2021	Cumulative sales and investment raised by AI companies nurtured and supported exceeded KRW 200 billion each
2020	Selected as the operating agency for the Korea University Industry-Academic Cooperation Foundation - ETRI consortium
2019	Expanded the AI company support space at the hub
2017	Selected as the first operating agency (private outsourcing) for the KAIST Industry-Academic Cooperation Foundation - MODULABS consortium

**KEY ACHIEVEMENTS**

<b>360+</b>	AI startups	nurtured
<b>449.2B</b>	KRW	in revenue
<b>390.3B</b>	KRW	in investment raised
<b>5,369</b>	talents	developed
<b>1.5</b>	trillion KRW	company valuation

\* As of the second half of 2024

**CORE BUSINESSES**

**Technical Support**

Building a framework for technological innovation and global collaboration

- AI Seoul Fellow / AI Professional Directory
- Global Research Cooperation
- AI Transformation (AX) Support Program

**Operation Support**

Supporting AI startup growth and fostering professional networks

- AI High-Performance Computing (HPC) Infrastructure Support
- Seoul AI Hub Business Networking
- Global AI Internship Program

**Investment Linkage**

Facilitating private investments, matching technology commercialization, and driving global expansion

- AI Global Investment Linkage Program
- Seoul AI Hub Open Innovation Program
- Global Market Entry Support

**Startup Activation and Talent Development**

Strengthening the industry-academia-research ecosystem

- AI+X Training Program / AI Conference
- AI Youth Entrepreneurship Program
- AI Semiconductor Design Practical Training
- AI Semiconductor Design Engineer Training



## Resident Startups at Seoul AI Hub Hi-Brand Facility

<b>Aardvark</b>	Pilot: An AI-driven platform that replaces the entire process of creating English exam questions
<b>AIveNautics</b>	Developer of AI navigation support system for autonomous vessels
<b>BLAST</b>	Easily buildable RAG system for everyone
<b>Cleverus</b>	Fall prevention and detection monitoring solution using edge devices and AI
<b>Croft</b>	AI-driven autonomous control software for smart greenhouses
<b>CUBIG</b>	Data processing and trading using differential information protection technology
<b>Good &amp; Wise</b>	AI literacy service (SaaS) using generative AI
<b>Goose Labs</b>	A metaverse home workout app based on motion recognition technology
<b>Groundone</b>	3D space DX and cost-saving BIM solution by integrating vision technology with spatial data
<b>HyperEZ</b>	Intelligent 3D asset-sharing platform service
<b>iTeXSolution</b>	Developer of OCR technology for digitizing AI-based educational content
<b>MACHUDA</b>	Edtech service that analyzes the problem-solving data of exam candidates to shorten the time to pass
<b>MAGO</b>	Cassette: An AI platform that connects emotions
<b>NetLOX</b>	Developer of Cloud Native Edge AI
<b>PAI Media Lab</b>	On-device AI cameras for safety monitoring in smart factories
<b>Petpeotalk</b>	Dogibogi: AI-based pet monitoring solution
<b>Piloto</b>	AI mobile app that helps children and teenagers develop healthy digital device usage habits
<b>REXOLUTION</b>	AI vision solution for automated PCB visual inspection
<b>SNPLab</b>	On-Device PDS-based MyData one-person marketplace app service
<b>Starpickers</b>	Mobility safety management AIoT system linked with fintech service
<b>StyleAI</b>	AI fashion style recommendation service using machine learning for product images
<b>Triplet</b>	Store analysis system based on AI video analysis with AI kiosks that provide personalized product recommendations

## Resident Startups at Seoul AI Hub Anchor Facility

<b>AI Future</b>	Development of NPU IP AI software
<b>NationA</b>	3D/4D data SaaS based on generative AI
<b>PIAspace</b>	Video search and copyright management services using AI technology
<b>Wave Lifestyle Tech</b>	Service robots and control technology for innovative lifestyles in industries such as food service

## Resident Startups at Seoul AI Hub KFTA Building

<b>acrossB</b>	AI-based integrated logistics platform service for cross-border e-commerce
<b>AiNEWT</b>	Data quality verification automation platform using generative AI technology
<b>Bobidi</b>	Community-based AI model improvement
<b>injewelme</b>	Health big data platform and gamified AI health management service for minors
<b>Monit</b>	AIoT-based smart care system for elderly patients
<b>MOVIC Lab</b>	AI-based smart factory solution service (equipment failure detection solution)
<b>OnITKOREA</b>	Cargo transportation route optimization and AI dispatch recommendation service
<b>Plask</b>	AI-based 3D content creation tool and platform
<b>Tilda</b>	AI manufacturing equipment optimization solution that replaces inefficient equipment control based on human experience and knowledge
<b>TwoWhy</b>	Provider of Inbuzz, a B2B interior solution
<b>VIRTRIS</b>	A precision medicine solution platform based on Panomics
<b>VODABI</b>	Sales conversation AI analysis technology and service
<b>WISH</b>	Developer of a vision AI-based 3D motion capture solution

Seoul AI Hub Anchor Facilities



Seoul AI Hub KFTA Building



## Resident Startups at Seoul AI Hub HeeKyung Building

<b>3R Innovation</b>	Solution to improve treatment effectiveness for mental health diagnosis and counseling providers
<b>4DiVISION</b>	3D robotic arm solution for random bin-picking in unmanned factories
<b>AI Guru</b>	AI consulting and solutions to support the intellectualization of the manufacturing industry
<b>AIDICOME</b>	Medical image analysis platform using machine vision and AI analysis technology
<b>AMSquare</b>	Performance maintenance service and software solutions for AI models
<b>Catchflow</b>	Developer of directional speaker using user recognition through camera video deep learning
<b>CITYEYELAB</b>	nstructured multi-angle traffic AI video analysis solution based on Vision Transformer model
<b>Data B</b>	Generative AI-based English proofreading, paraphrasing, and translation service
<b>Deargen</b>	AI-driven novel drug discovery platform development
<b>DiaVision</b>	Developer of digital vaccine to effectively reduce the risk of disease onset
<b>DroMii</b>	Automatic removal of vehicle images from roads based on deep learning and spatial data
<b>Gamer Republic</b>	Real-time game coaching AI service
<b>Gloud</b>	Developer of JustScan, an automated digital dentistry solution
<b>Impactive AI</b>	AI-based system for new product prediction and demand forecasting
<b>Jupiter Labs</b>	Developer of Weaving, an integrated management and operational innovation solution for wholesale and retail products
<b>Kaier</b>	Developer of AI-based software for automatic defect detection in product manufacturing processes
<b>Litiv</b>	AI-powered sports data analysis and sharing platform
<b>Macroact</b>	Home robots using autonomous control and computer vision technology
<b>Meraker</b>	AI-based digital twin solution
<b>NewMes</b>	A service to improve work accuracy and processing speed using a lightweight specialized foundation model
<b>Onoma AI</b>	Tootoon: An AI-based support service for webtoon creators that helps from planning to line art
<b>PinotLab</b>	Developer of Water Sommelier, an AI-powered water recommendation service, and Pino Quant, an AI-based social finance service
<b>PIRECO</b>	Mobile-based pet life cycle management solution with nose pattern recognition

<b>Prevenotics</b>	AI-based technology for pre-cancer diagnostics
<b>SNE Company</b>	Big data and AI-based price prediction platform for trading non-grade produce
<b>Structum</b>	Cost-effective and reliable AI-Assistant based on Document-AI
<b>Studio Free Willusion</b>	Video content creation service using generative video AI
<b>Studio Lab</b>	Automated solution for detailed page and brand design, including automated photography
<b>Swevenz</b>	AI-based real-time bidding and self-serve ad purchasing platform
<b>Teddysum</b>	Domain-specific AI language model service based on a Korean-language-focused generative AI model
<b>the Little Cat</b>	AI disease prediction service based on pet biometric big data that provides pet healthcare solutions
<b>The Plan G</b>	Sustainable, self-directed AI-based education solution for English
<b>Toonsquare</b>	AI-based generative AI and webtoon creation SaaS
<b>Tryfifty</b>	LaunchBound, an LLM-based software design SaaS service
<b>VAIV AI</b>	Ultra-personalized SaaS platform service using AI deep learning technology to analyze behavioral patterns
<b>Vdigm</b>	Generative AI avatar creation solution and AI avatar-based immersive metaverse service
<b>Vibezone</b>	Fandom-based content sharing platform
<b>Visual Camp</b>	Development and supply of AI-based eye-tracking software
<b>W.AI</b>	AI-based breast implant diagnostic software development
<b>WorksBe</b>	WorksBe AI-based optimal combination matching

Seoul AI Hub HeeKyung Building



# VISUAL INTELLIGENCE



## AI Startups from Seoul AI Hub

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4DiVISION

AIDICOME

AIVeNautics

CITYEYELAB

Cleverus

DroMii

Gamer Republic

Goose Labs

iTeXSolution

Litiv

Meraker

Onoma AI

PAI Media Lab

Petpeotalk

PIAspace

PIRECO

REXOLUTION

Studio Free Willusion

Studio Lab

Triplet

Visual Camp

WiSH

AI 3D Vision Sensors for  
Unmanned Automation

**4DiVISION**

As smart factory adoption accelerates in the manufacturing industry, there is a growing demand for high-precision, vision intelligence-equipped robotic arms for completely unmanned processes.

4DiVISION specializes in this field, and has developed "TesseraVue," an on-sensor AI-powered 3D scanner designed to be mounted on robotic arms. The company was founded in August 2023.

**Company Name**

4DiVISION

**CEO**

Heegong Lee

**Key Product/Service**

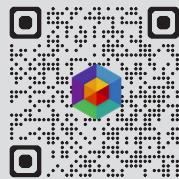
TesseraVue

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Edge Computing
- Robots & Autonomous Systems
- Visual Intelligence



4division.co.kr



**4Di**VISION

### "TesseraVue": On-Device AI-Powered 3D Scanner

4DiVISION provides optical-based 3D sensors and visual intelligence solutions optimized for robotics and factory automation. Its flagship product, TesseraVue, is a high-precision 3D scanner that supports a random bin-picking solution with robotic arms and a surface defect detection solution. The on-device AI processing eliminates the need for an external PC or computing unit and offers high accuracy even in complex environments. This is used for control automations as well as shape and surface defect inspections.

### A 1 kg 3D Sensor with a Built-In Deep Learning Model

TesseraVue is a structured light-based 3D scanner that weighs approximately 1kg, and is designed for installation on robotic arms. With its modularized optical components, it can operate not only in visible light but also with near-infrared (NIR) and ultraviolet (UV) wavelengths, and provide customized solutions. With a built-in deep learning model, even non-experts can easily use the solution for object recognition and defect inspection.

It also helps reduce processing time and operational costs in manufacturing workflows. It is equipped with an NVIDIA GPU for real-time computation, and performs two scans per second. By combining 3D point cloud computation with 2D imaging, it transmits only object recognition and pose estimation data from the sensor for PC-free operation. This compact AI 3D sensor not only minimizes installation space constraints but also lowers system integration costs.

### 4DiVISION's Growth and Future Outlook

4DiVISION's 2D and 3D sensor technology is not only used in automated manufacturing but also in railway and road surface safety inspections as well as unmanned military facility access systems using AI-powered kiosks. As of 2024, the company has achieved cumulative sales of KRW 2 billion and secured a KRW 7 billion government project. 4DiVISION plans to increase the efficiency of robotic arms in small and medium-sized factories while also expanding into unmanned automation processes in the factories of large companies, including those in the automotive and shipbuilding industries.

The company is also keen on expanding its customer base. Starting in the second half of 2024, it has been collaborating with Mila, a globally recognized AI research institute, on developing specialized small large language models (sLLMs) for autonomous action generation. The company hopes to introduce a low-code tool to simplify robotic arm programming, and make automation more accessible for non-experts. It plans to expand its customer base by developing a no-code tool so that even ordinary users can easily program robots.



"TesseraVue": On-Device AI-Powered  
3D Scanner Mounted on a Robotic Arm  
(Source: 4DiVISION)

Holographic Pet Avatars Based on AI

**AIDICOME**

AIDICOME is a developer of "SoulCube,"  
a device that creates virtual pet avatars based on cutting-edge AI holograms.  
The company was founded in July 2021.

**Company Name**

AIDICOME

**CEO**

Jongheon Yoon

**Key Product/Service**

SoulCube

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Visual Intelligence



[aidicome.com](https://aidicome.com)

**iDICOME**



### "SoulCube": Realistic Interaction with 3D Holographic Pets

SoulCube is a cutting-edge holographic memorial device that creates 3D holograms of pets. By simply uploading a photo of a pet, AI analyzes its features and personality to generate a very detailed, customized virtual avatar.

With facial recognition and contactless gesture recognition technology, users can interact naturally with their virtual pet. SoulCube's front camera detects users' faces and rotates to face them in real time. It supports various interactive gestures, including playing, feeding, and teasing, and feels like you are engaging with a real pet. SoulCube is a meaningful way to remember and honor beloved pets and offers a deeply immersive memorial experience.

### More Than a Memory: An AI Virtual Avatar That Feels Real

Unlike photos or videos, SoulCube creates a personalized AI-powered virtual avatar so that pet owners to relive memories with greater realism. It introduces interactivity where users can play with their pet, feed them, and engage in meaningful interactions, just like in real life. With touch-free gesture recognition, it responds to user movements in real time and strengthens their emotional bonds with their pet. SoulCube goes beyond preserving memories and serves as a solution to keep a pet's presence alive.

### AIDICOME's Growth and Future Outlook

AIDICOME plans to launch SoulCube with crowdfunding in November 2024. Following the initial release, it plans to refine the product based on market feedback and establish a strong presence in both online and offline sales channels. Additionally, it will continue to expand its range of pet memorial services and products.

On top of this, the company is working to commercialize a measurement application using its proprietary medical AI technology. The company will conduct clinical trials for AI-driven health monitoring and diagnostic programs over the next five years with the goal of obtaining medical device certification. The company plans to advance the technology to analyze and track real-time health data not only for pets but also for humans, and set the stage for future business expansion.

"SoulCube": 3D Hologram-Based Virtual Pet Avatar Device  
(Source: AIDICOME)



Maritime Navigation with Specialized  
Vision AI for Small Object Detection

**AIVeNautics**

Just as navigation systems improve road safety,  
the ocean also requires reliable maritime safety solutions.  
AIVeNautics developed "CON.AR" and "ChatSea," maritime navigation  
and safety data systems using AI-based sensors.  
The company was founded in February 2023.

**Company Name**

AIVeNautics

**CEO**

Jinhyung Park

**Key Product/Service**

CON.AR ChatSea

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Cloud & AI Infrastructure
- Robots & Autonomous Systems



[aivenautics.com](https://aivenautics.com)



## Detecting Ships with AI-Powered "CON.AR" and Alerting with "ChatSea"

AIVeNautics' core portfolio includes CON.AR, tailored for the B2B market, and ChatSea, tailored for the B2C market. CON.AR targets maritime navigation system manufacturers, while the ChatSea app targets leisure boat owners, maritime officers, and shipping companies.

CON.AR is a target recognition and tracking system designed primarily for small vessels. It supports autonomous navigation by integrating radar-based data fusion. While small vessels are more difficult to track compared to larger ships, CON.AR addresses this issue by using multiple sensor data sources. Its vision AI, trained for long-range and small-object detection, focuses on radar-designated areas to precisely identify ships and obstacles.

With CON.AR, users can share their collected maritime safety data with other vessels. This shared safety data needs to be very reliable and stable. That is where the ChatSea service comes in. It is the world's first open global messaging platform for maritime navigation built on international standards, and enables vessels to create a worldwide safety network.

## AIVeNautics, Building the T-Map of the Sea

Powered by AI, CON.AR achieves a 27% higher detection accuracy and a 104% longer detection range compared to current vision systems that rely solely on images. With this improved performance, navigators can detect targets more effectively, even in challenging conditions such as nighttime or heavy fog.

While the ChatSea app is designed for individual sailors, its server targets all customers. The ChatSea server connects CON.AR systems to each other and facilitates data exchange between CON.AR and the ChatSea app. Ultimately, ChatSea serves as a maritime equivalent of road traffic safety services and as a means of exchanging navigation safety data, just like on land.

## AIVeNautics's Growth and Future Outlook

AIVeNautics was selected for multiple prestigious programs in 2024, including the Promising Software as a Service (SaaS) Development & Growth Support Program, COMEUP Stars 2024 Rookie League Top 100 Companies, and the K-water Early Startup Package, and joined the Seoul AI Hub in the same year.

Currently, ChatSea servers have been deployed in eight countries (South Korea, Denmark, Sweden, Canada, Australia, the United States, Japan, and Singapore) and service testing is underway. AIVeNautics plans to complete ChatSea server testing and officially launch the service in 2024. Additionally, it will introduce the "CON.AR Night Navigation" version in the first half of 2025.

AIVeNautics aims to launch the full version of CON.AR by the end of 2025, and reach 300,000 downloads for the ChatSea app. After that, the company is targeting KRW 5.7 billion in sales from the full version of CON.AR by 2027.

Image of AIVeNautics' Maritime Safety Information System "CON.AR"  
(Source: AIVeNautics)



Collecting and Analyzing Traffic Video Data  
Based on AI for Traffic Insights

**CITYEYELAB**

CITYEYELAB integrates AI technology with traffic engineering to collect real-time road traffic data and provide intelligent solutions for traffic control.

The company was founded in January 2021.

It has secured KRW 210 million in seed funding.

**Company Name**

CITYEYELAB

**CEO**

Jongwoo Jung

**Key Product/Service**

CityEye

**Industry**

Visual Intelligence

**Technology**

• Computer Vision



[cityeyelab.com](http://cityeyelab.com)



## "CityEye": Traffic Data Analysis Platform Using AI Video Analysis Technology

CityEye, developed by CITYEYELAB, provides real-time traffic information by using AI to collect and analyze road traffic data. It increases efficiency by replacing traffic surveys that relied on manual observation and detection devices with AI video analysis technology. By applying multi-perspective AI models, it can detect vehicles, pedestrians, and bicycles in videos captured from different angles, heights, and resolutions.

## Effective Object Detection in All Videos with Multi-Purpose AI Models

Most AI video analyses rely on fixed-location CCTVs, which function effectively only in specific environments. However, CityEye employs a variety of AI models to analyze a broader range of video footage, with consistent object detection in various sources.

It is currently working on real-time traffic data analysis and signal optimization solutions. Its goal is to go beyond existing data-driven intelligent transportation systems (ITS) and apply the collected data to improve traffic signal operations.



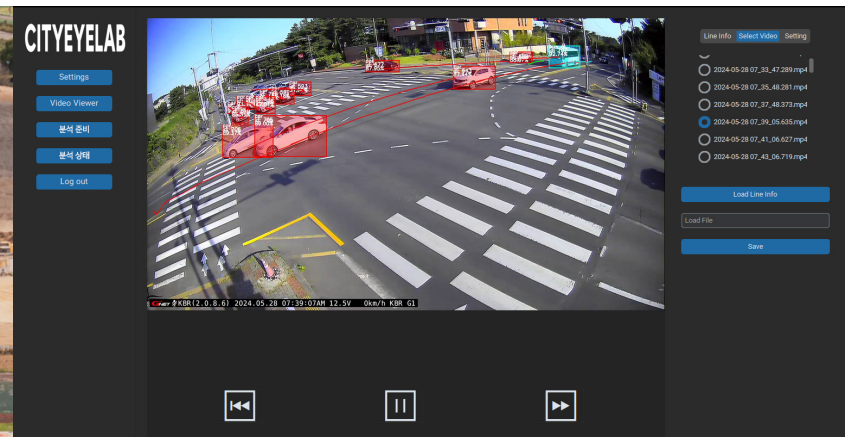
## CITYEYELAB's Growth and Future Outlook

CITYEYELAB uses its traffic data collection system to conduct annual traffic volume surveys in 3,000 locations nationwide. It also processes and provides customized road traffic analysis data to meet the needs of engineering firms.

It is currently developing the first phase of its road traffic data platform and targets an official launch in 2025. The platform will be built so that users can analyze IP CCTV feeds and recorded footage based on their specific needs.

CITYEYELAB is also expanding its focus beyond traffic management and plans to apply its AI video analysis technology to smart retail and autonomous driving. It is developing a comprehensive software platform that will not only gather real-time traffic data but also support traffic strategy simulations and autonomous driving infrastructure monitoring on a single platform.

Road Traffic Data Analysis with the "CityEye" Platform (Source: CITYEYELAB)



AI Video Processing for Risk Prevention

**Cleverus**

Cleverus specializes in AI video processing.

The company, founded in July 2022, has secured KRW 100 million in seed funding.

It has registered two patents related to abnormal behavior monitoring systems.

**Company Name**

Cleverus

**CEO**

Hyunjae Bae

**Key Product/Service**

Be:Clever

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Edge Computing
- AI R&D



[cleverus-ai.com](https://cleverus-ai.com)

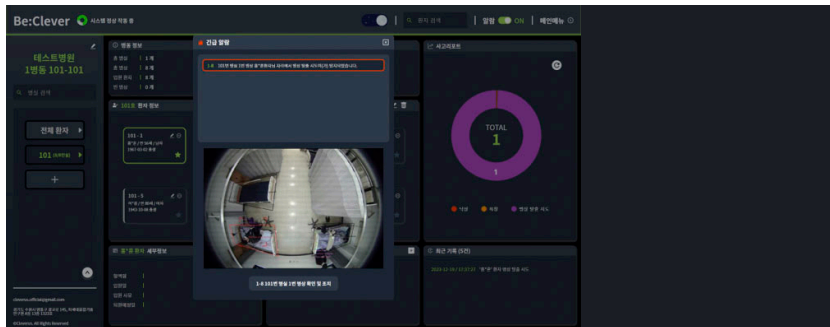


## The Story of Cleverus' Solution

Cleverus operates Be:Clever, an anomaly detection and prevention solution using edge devices and AI. By installing fisheye lenses and compact AI PCs (edge devices), the system enables smart surveillance with AI-driven abnormal behavior analysis. Instead of relying on costly servers, Be:Clever uses compact AI PCs, which makes it more affordable and easy to scale with simple installation. A single device can effectively monitor up to four locations at once. The Vision AI system includes smart exception handling, which prevents alarms from triggering when a nurse or caregiver is present.

## Competitive Edge of Cleverus

Cleverus goes beyond anomaly detection with proactive prevention backed by a dataset of 800,000 fisheye lens images. By applying proprietary data augmentation techniques to fisheye lens, its behavior recognition AI maintains high accuracy in various backgrounds and environments. The system is optimized for compact AI PCs (edge devices) with limited memory, which makes it more cost-efficient. As a result, the AI model size is reduced by one-third, and power consumption is cut by 50%.



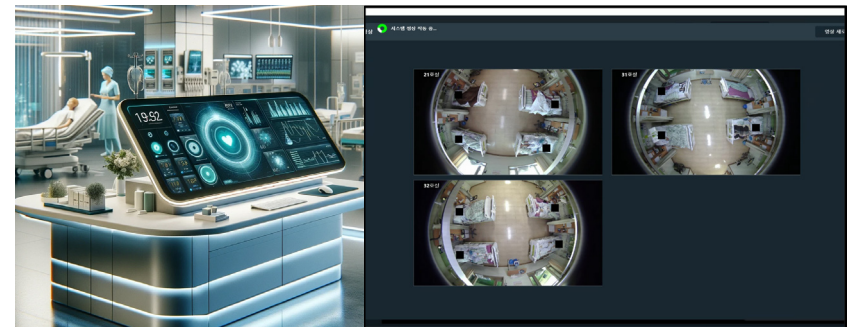
## Cleverus' Growth and Future Outlook

Cleverus' solution is already in use in various institutional environments, including SM Christianity Hospital in Pohang, S Seoul Hospital in Suwon, and St. Luke's Nursing Home in Suwon. In 2024, the company was selected for the "AI Integration Project to develop AI-driven healthcare solutions using medical data" for the K-Health National Healthcare.

As a vision AI specialist, Cleverus set a goal to penetrate high-barrier markets, particularly medical institutions such as general hospitals, rehabilitation centers, and nursing homes, and targets a minimum of 20% year-over-year profit growth with continued adoption in these specialized environments. It plans to expand its AI-powered intelligent CCTV solutions into three key markets: first, medical institutions; second, senior care facilities; and third, disaster and public safety agencies such as the fire department and national police.

The company is developing AI-driven crime prevention solutions to target issues such as loitering and domestic violence, along with early detection systems for dementia patients and missing persons. Additionally, it plans to advance its medical AI patient assistance and diagnostic solutions with research and development initiatives.

Cleverus' Real-Time Anomaly Detection CCTV Monitoring Footage  
(Source: Cleverus)



AI Spatial Solutions with  
Drones and Satellites

**DroMii**

DroMii specializes in collecting data using drones and satellite data and applying AI models to provide optimized spatial data customized for various customer needs.  
The company was founded in September 2017.

**Company Name**

DroMii

**CEO**

Seungho Lee

**Key Product/Service**

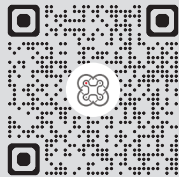
K-AQUAS

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Generative AI
- Data Analysis & Visualization
- Edge Computing
- Cloud & AI Infrastructure
- Security & Privacy
- Robots & Autonomous Systems
- AI Tools & Platforms
- AI R&D · Visual Intelligence
- Reinforcement Learning
- Machine Learning



[new.dromii.com](http://new.dromii.com)





## The Story of DroMii, an AI Spatial Data Solution Specialist

DroMii specializes in drone and satellite-based spatial data solutions. Drone as a Service (DaaS) transforms drone-captured images into 2D, 3D, and 360-degree panoramas for spatial analysis and provides detailed reports with a simple URL.

Drone Traffic Mapper (DTM) is an AI-powered traffic monitoring system that uses drones to track road conditions and detect/track objects, whereas Car-Free Street Map (CfSM) employs deep learning to automatically remove vehicles from street images to create unobstructed road maps.

Auto-labeling 5G Geo-spatial Information HDS Map (AfGG) is a solution that creates high-precision road safety maps (HDS Maps) by using DTM technology to automatically label road features such as double yellow lines, crosswalks, and stop lines, as well as to detect and quantify road hazards such as potholes and cracks.

K-AQUAS is a GeoAI-based water resource management system that uses satellite, aerial, and drone data to monitor water quality, detect land pollution, and manage illegal farming activities in dam and river basins.

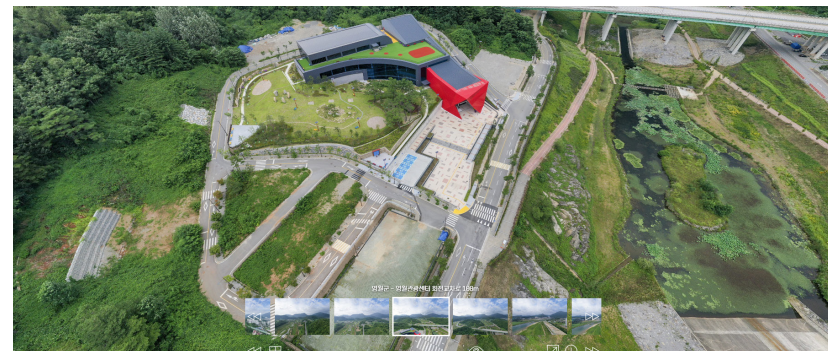
### Competitive Edge of DroMii

AI solutions in the water industry often offer unrealistic services due to a lack of understanding of both AI and the water industry. DroMii stands out by combining deep expertise in the environment and water industry with advanced GeoAI technology and extensive project experience. Specifically, DroMii operates its own drones and handles the entire pre/post-data processing to provide faster and safer data outcomes with complete customization based on client needs.

In 2022, the company developed road maps with vehicles removed for accident-prone areas as part of the Drone Demonstration City Project. In 2023, it

introduced a nighttime risk monitoring service using drone sensors with automated object detection and data transmission.

Image of DroMii's DaaS Implemented (Source: DroMii)



### DroMii's Growth and Future Outlook

DroMii plans to further advance K-AQUAS. Through on-site surveys and data collection, the company will develop advanced AI models for services such as AI-generated land cover mapping, detection of pollution sources near rivers, identification of illegal farmland, water quality monitoring, and prioritization of high-risk areas for proactive management.

Additionally, DroMii is developing an AI-driven pedestrian safety platform based on spatial data. This platform will use portable LiDAR technology to improve convenience for all pedestrians, including vulnerable populations in society. Specific platform features are envisioned, such as analyzing risks on side streets (roads where vehicles and pedestrians share the same space) and identifying sidewalk bumps and cracked blocks that hinder the mobility of people with disabilities.

AI-Powered Real-Time Game Coaching

## Gamer Republic

Gamer Republic, founded in October 2020,

provides an AI-driven real-time game coaching service.

This service uses AI to analyze gameplay and provide personalized coaching to players.

The company has secured KRW 100 million in seed funding.

It has been selected for the TIPS R&D program.

**Company Name**

Gamer Republic

**CEO**

Jiwon Ryu

**Key Product/Service**

STATUP.GG

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Generative AI
- Edge Computing
- AI Tools & Platforms
- AI R&D
- Reinforcement Learning
- Machine Learning



[gamerrepublic.gg](https://gamerrepublic.gg)

GAMER REPUBLIC

## The Story of Gamer Republic's Solution

Gamer Republic has been operating STATUP.GG, a real-time AI game coaching service, since its global launch. STATUP.GG analyzes gameplay in real time and provides personalized coaching and helping users improve with post-match feedback reports. The service features AI-powered game screen recognition, automated AI training data generation, multi-source and multi-variable data analysis, context-aware coaching tailored to game situations and player skill levels, and multi-language support for a global audience.

## Competitive Edge of Gamer Republic

Gamer Republic is targeting the KRW 6 trillion global game coaching market. Currently, most game coaching services rely on expensive 1:1 human coaching. STATUP.GG is an "AI-driven real-time coaching service" that offers a more scalable and cost-effective alternative. STATUP.GG is the world's one and only real-time AI game coaching service. The service is protected by a patent for "game assistance method and system through applications" to prevent similar services from entering the market.

STATUP.GG has been designed for global expansion from the early stages of service development and has test services available in Korean, English, and Vietnamese. For its major service regions in Europe, it plans to add support for French, Spanish, German, as well as Japanese.

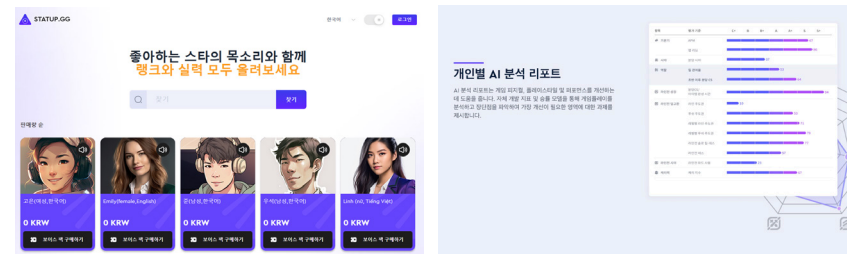
## Gamer Republic's Growth and Future Outlook

STATUP.GG is currently running a global test service for "League of Legends (LOL)" in 10 regions. Also, 74% of current users are known to be long-term subscribers. In the future, Gamer Republic plans to expand into other LOL-like games such as Dota 2, as well as shooter games such as Valorant, PUBG, and Fortnite.

The company is also working with game developers to integrate AI-powered coaching directly into their games as a B2B service. This will allow developers to automate in-game tutorials and reduce the time and manpower required for creating tutorials post-development, ultimately shortening the time to market.

The company aims to achieve 1 million monthly active users (MAU) globally within two years and targets a 0.5% paid user conversion rate. In the long term, the goal is to secure 10% of players as MAU per game and increase the paid user conversion rate to 2%.

Image of "STATUP.GG" by Gamer Republic  
(Source: Gamer Republic)



Revolutionary Home Workout App Based  
on Vision AI

**Goose Labs**

Goose Labs is the company behind "FIVA," a cutting-edge home workout app powered  
by Vision AI technology.

The company was founded in November 2021.

**Company Name**

Goose Labs

**CEO**

Seohee Lee

**Key Product/Service**

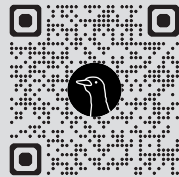
FIVA

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Visual Intelligence



[gooselabs.io](https://gooselabs.io)



GOOSE LABS

## "FIVA": the Metaverse Home Workout Experience

FIVA is a metaverse-based home workout app that allows users to exercise in real time with motion-recognition avatars. The system uses vision AI technology for motion recognition from camera footage, real-time avatar motion capture, and motion similarity comparison. What sets Goose Labs apart is its patented technology, which compares and analyzes the similarity of two actions, including both the intensity and timing of movements. This approach goes beyond conventional methods that only assess the similarity of actions.

A standout feature of FIVA is that private workouts can be done without requiring users to turn on their cameras. Most existing home workout services function like Zoom fitness classes, where participants must exercise on camera. This can be uncomfortable, especially for privacy-conscious users, such as women in their 20s to 40s, who make up the primary demographic for home fitness.

Since FIVA uses Vision AI for motion tracking, no additional hardware or sensors are needed. Unlike console-based fitness games/platforms such as Ring Fit or Nintendo Wii, FIVA works on any device that has a camera. Users don't need to wear or attach additional equipment. It is enough to get started with only a smartphone.

## Goose Lab's Growth

Goose Labs has actively showcased FIVA at major industry events, including CES 2024, SPOEX 2024, and STK 2024. The company has successfully completed various projects so far. It secured a contract for the "Self-Care Platform for Young Diabetics," a joint research initiative with Chungnam National University and KAIST. As part of this project, Goose Labs is developing a comprehensive diabetes management platform that integrates exercise therapy, health data tracking, educational resources, and a support community to help users manage their condition more effectively.

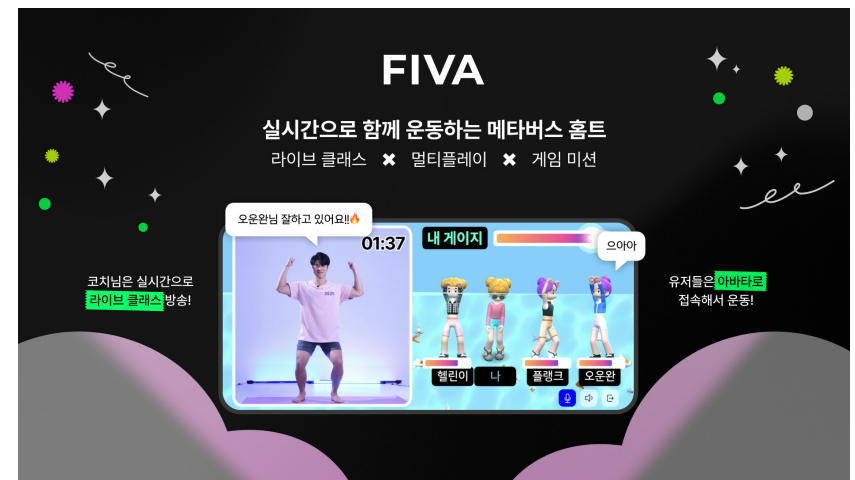
## Future Outlook

Goose Labs is set to expand its user base by launching new features that make workouts more engaging and easier to maintain. With increasing demand and partnerships in dance gaming, where users follow rhythm-based dance moves, the company is actively developing content and services tailored to this growing trend.

Goose Labs plans to collaborate with partners to unlock new business opportunities using its strong advantages of compatibility across multiple platforms, including smartphones, smart TVs, and kiosks.

For global expansion, the company is focusing on fitness content, which has relatively fewer cultural barriers. Goose Labs is laying the foundation for an official overseas launch by using international trade shows and its existing infrastructure.

Intro Image of "FIVA," Goose Labs' Home Workout Service  
(Source: Goose Labs)



Powering the Digital Transformation of  
Education

**iTeXSolution**

iTeXSolution provides services for digitized educational  
content using deep learning AI technology.  
At the heart of its innovation is "Qn.AI."  
The company was founded in September 2014.

**Company Name**

iTeXSolution

**CEO**

Wangsang Yoo

**Key Product/Service**

Qn.AI

**Industry**

Visual Intelligence

**Technology**

•Visual Intelligence



qnai.io

**iTeX**Solution™

## "Qn.AI": Accurate Text and Formular Recognition with Support for Editing without Scribbles

Qn.AI is a digitization solution that recognizes and edits text, equations, diagrams, and tables from unstructured educational content, all in one step. It accurately recognizes handwritten input in any format and converts the extracted data into an editable, structured format.

Qn.AI precisely distinguishes scribbles from text, and meticulously recognizes various typefaces, including Roman type, italic fonts, and uppercase and lowercase letters. With its intuitive graphic user interface (GUI) editor, users can instantly modify recognized text and equations in real time. The final output can be converted into an HWP or Word format.

## Overcoming the Challenges of Digitizing Complex Unstructured Educational Content Using AI Text Recognition Technology

Qn.AI is the only solution worldwide that can recognize mathematical equations and convert unstructured educational content into fully editable documents. The biggest challenge in digitizing educational content has been handling complex equations and irregular content layouts, which is now solved by Qn.AI thanks to its AI-powered optical character recognition (OCR). A key feature of Qn.AI is its ability to recognize and edit content from snapshots, scanned images, PDFs, and more, regardless of format.

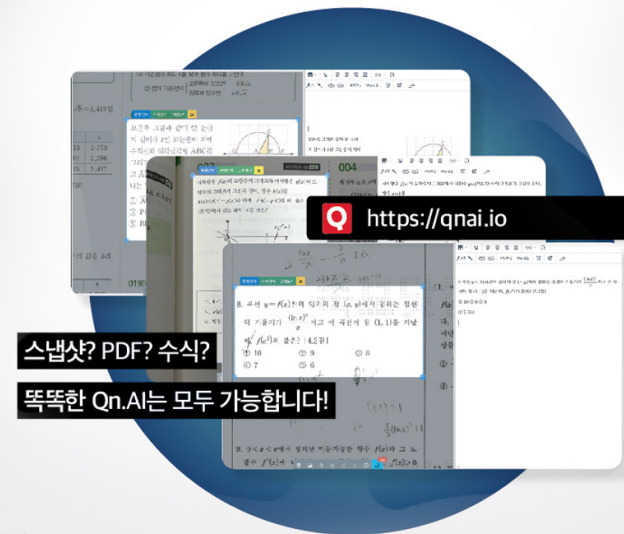
## iTeXSolution's Growth and Future Outlook

In 2023, iTeXSolution's handwritten mathematical equation recognition technology was officially adopted by the Korea Institute of Curriculum and Evaluation (KICE) for its academic achievement assessment system. That same year, the company partnered with domestic education providers to convert more than 4 million questions to build a question bank database (DB). Looking ahead, it will gradually expand the Qn.AI services to facilitate the complete digital transformation of educational content, from real-time document conversion to large-scale DB development.

# 교육 콘텐츠의 완전한 디지털 전환!

# Qn.AI

한번에 텍스트, 수식, 그림, 표, 글박스를 인식하는  
세계 최초, 수학 문항 Full-Text OCR



iTeXSolution™

Image of "Qn.AI" by iTeXSolution  
(Source: iTeXSolution)

AI Sports Data Analysis App That Requires  
No Sensors

**Litiv**

Litiv is the company behind the "Bastat," a cloud-based AI sports data platform.  
The company was founded in January 2022.

**Company Name**

Litiv

**CEO**

Jihoon Kim

**Key Product/Service**

Bastat

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Cloud & AI Infrastructure
- Visual Intelligence



litiv.net





## "Bastat": AI Sports Video Analysis Platform

In sports, data analysis plays a crucial role in identifying weaknesses and improving performance of athletes. Litiv has developed technology that analyzes sports data using only video without external sensors. Bastat, its AI-powered platform, lets users record, analyze, and share sports data effortlessly.

The Bastat service is available in two formats. The basic service includes game footage recording, provision of highlight scenes, and a scoreboard information overlay for amateur athletes who enjoy games in indoor gyms. It also generates short-form video clips of the games. In addition to the basic service, it offers a data-driven service for sports teams competing in tournaments that links game footage with performance records and searches records.

## One-click Analysis and Editing of Sports Video Where It is Hard to Identify Players

Analyzing sports footage is more complex than regular videos because uniform similarities and other factors make it difficult to distinguish athletes. Conventional tracking systems struggle when players block each other from the camera view, which makes analysis even more difficult.

To address these hurdles, Litiv has developed a specialized video processing pipeline technology for sports footage using technology patented in both Korea and the United States. Bastat enhances accessibility by using shared equipment installed in partner sports facilities and its own system that integrates AI and cloud-based technology. With a single click on the Bastat app, users can request video processing,

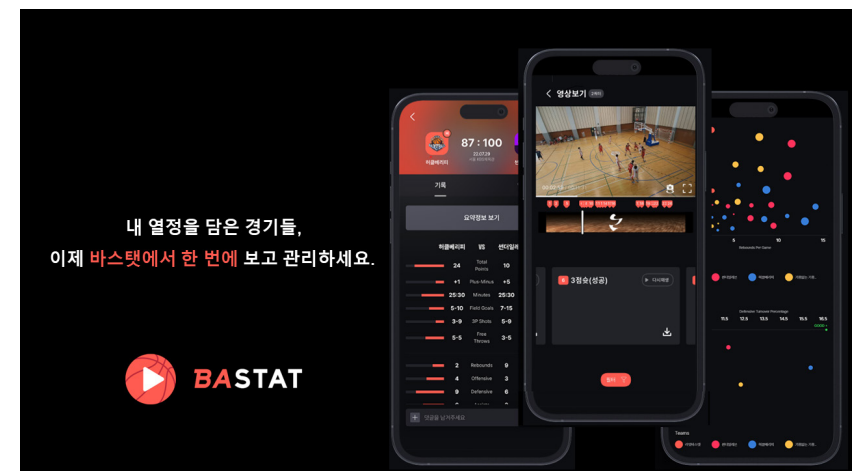
## Litiv's Growth and Future Outlook

watch personalized game highlights, and create and share short-form clips of key moments.

Bastat is expanding into new markets such as YouTube since it allows users to avoid the hassle of video shooting, editing, and uploading. It currently supports record management for athletes on sports YouTube channels.

Litiv is partnering with regional indoor sports centers to secure a foothold in the domestic market. It focuses on improving the environment for amateur and youth tournament organizers by creating an environment for recording data and linking it with video content for analysis.

Mobile Interface of "Bastat," a Sports Video Analysis and Sharing Platform  
(Source: Litiv)



Portable AI Diagnostic Camera for  
Ophthalmic Diseases

**Meraker**

Meraker specializes in fundus cameras and video rendering acceleration solutions using its proprietary AI-driven visual effects (VFX) technology.

The company was founded in November 2023.

It has raised KRW 1.3 billion in funding as of October 2024.

**Company Name**

Meraker

**CEO**

Sunkwon Kim

**Key Product/Service**

AI Ophthalmic Camera

QuuP

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Generative AI
- Edge Computing
- AI R&D
- Visual Intelligence
- Machine Learning



[meraker.co.kr](https://meraker.co.kr)

**Meraker**

## "QuuP": AI-Powered Portable Ophthalmic Camera and High-Speed Rendering Software

Meraker has developed a portable ophthalmic camera capable of capturing both the lens and retina of eyes using its proprietary AI sensor technology. The AI sensor operates independently, detecting eye diseases without requiring human interruption or external servers, while generating high-quality ophthalmic data.

Its AI video rendering software, QuuP, accelerates rendering speed and increases resolution. It integrates seamlessly with existing video editing tools, so users can continue to work without learning new tools. Instead of discarding previous render results, QuuP refines and improves them with minimal effort.

## Portable AI Camera for Diagnosing Diseases that Threaten Vision

Meraker's portable AI ophthalmic camera is an "all-in-one product" that can perform both slit-lamp microscopy for cataract diagnosis and retinal imaging to detect retinal diseases. Existing fundus cameras can only diagnose retinal conditions in the posterior part of the eyeball. However, Meraker's camera can detect diseases that threaten vision such as cataracts by integrating AI-powered screening software.

Meraker's AI rendering accelerator, QuuP, increases 2K video renderings to 4K quality for movies and dramas. It reduces rendering time and costs by 90% compared to existing rendering processes. It also works seamlessly within existing VFX workflows and requires only a few clicks to apply for rendering tasks.

## Meraker's Growth and Future Outlook

Meraker's portable AI ophthalmic camera is currently undergoing field tests in hospitals in Cambodia and Korea. Its AI rendering acceleration technology is in co-development with a major local studio in Korea. In the future, it plans to further refine its ophthalmic camera hardware and software while expanding beyond rendering optimization to develop a solution for creating new visual data.

Meraker's AI Ophthalmic Camera (Source: Meraker)



AI-Powered Webtoon Creation from Story  
Planning to Drawing

## Onoma AI

Onoma AI is the company behind "TooToon," an AI-driven platform for creating webtoon content. Founded in February 2022, it has raised KRW 10.5 billion in funding as of October 2024.

**Company Name**

Onoma AI

**CEO**

Min Song

**Key Product/Service**

TooToon

**Industry**

Visual Intelligence

**Technology**

•Generative AI



[tootoon.ai](https://tootoon.ai)



**O N O M A . A I**

## "TooToon": AI Content Creation and Trading Platform

TooToon is an AI-driven platform designed to support the entire creative process for webtoons, web novels, and other digital content. It offers a comprehensive ecosystem for content creation featuring four key tools: Fabulator, Emporium, Artifex, and Anima, each designed to enhance different stages of the creative workflow.

Fabulator generates story elements, including storylines, synopses, character sheets, and full scripts, based on keywords provided by user with AI-driven algorithms. Emporium functions as a marketplace where creators can buy and sell these character sheets.

Artifex converts text descriptions and reference images into detailed line art to give artists a structured base to refine and build upon. Anima generates high-quality, full-color illustrations from users' simple prompts and provides a foundation for webtoon and content creation.

## A Single Platform that Does It All, from Storytelling and Illustration to Trading

Existing platforms separate storytelling, illustration, and content creation into distinct processes. However, TooToon integrates all these steps into a continuous creative workflow on a single platform. With AI-driven storytelling and generation of high-quality illustration, TooToon significantly reduces the time and effort needed to produce webtoons and digital content.

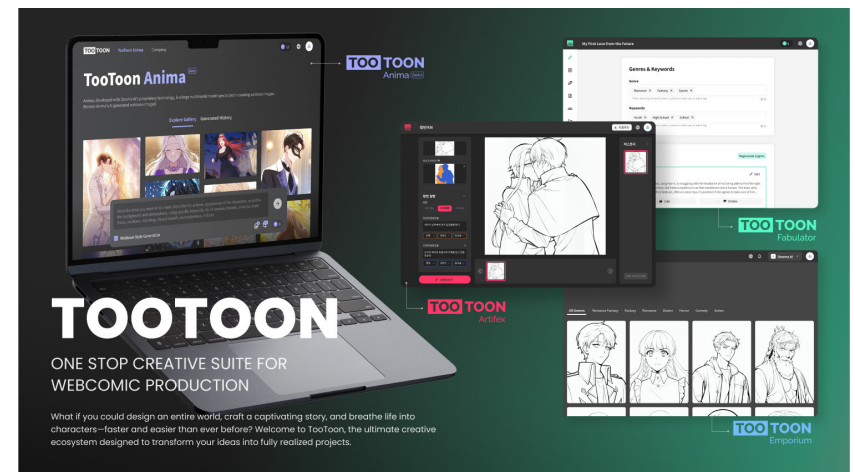
TooToon also supports the trading and monetization of creative assets. The Emporium feature allows users to customize, save, and trade character models globally and provides a space for collaboration, sharing, and economic opportunities for creators.

## Onoma AI's Growth and Future Outlook

Onoma AI won the CES Innovation Award in the AI category in 2024 and was selected as a "Super-Gap Startup +1000" in the AI category. It is currently collaborating with more than 20 webtoon studios worldwide, including LG U+'s webtoon series "Taro," which was created using TooToon and produced in a total of 16 full episodes. Onoma AI plans to launch the Emporium service in early 2025 and introduce "Creatio," a service designed for original IP development for web novels, in the first half of 2025.

The company aims to advance TooToon's AI technology to seamlessly convert web novels into webtoons while supporting solo webtoon creators in publishing serialized works. It is currently developing a proprietary multi-modal AI model specialized for webtoons and illustrations with the vision of evolving into a global visual storytelling company.

"TooToon": AI-Powered Web Content Creation and Trading Platform  
(Source: Onoma AI)



AI Camera for Real-Time Tracking of  
Workers and Heavy Equipment in Factories

## PAI Media Lab

PAI Media Lab specializes in on-device AI camera solutions.  
The company, founded in June 2021, has secured KRW 100 million  
in funding through the TIPS program.

**Company Name**

PAI Media Lab

**CEO**

Byungsang Yeo

**Key Product/Service**

CAI safe

**Industry**

Visual Intelligence

**Technology**

- Edge Computing
- Visual Intelligence
- Machine Learning



[paimedialab.com](http://paimedialab.com)

PAI media lab

## "CAI safe": AI Workplace Safety Monitoring Through Object Detection

PAI Media Lab's core product, CAI safe, is a specialized AI camera designed for real-time object location detection in industrial environments. Using AI-driven 2D wrapping technology and cameras only, CAI safe accurately tracks the position of workers, robots, and heavy equipment without the need for markers or attached sensors. A single process merges up to 16 cameras to eliminate blind spots and continuously track object locations throughout the entire worksite. This provides essential data to improve workplace safety and operational efficiency.

## Minimizing False Detections and Blind Spots with Only Cameras

CAI safe uses image processing algorithms to measure the locations of objects in real time with an accuracy of within 5 cm, all without the need for markers or sensors, and uses re-identification (Re-ID) technology to track the same object simultaneously with multiple cameras to monitor specific personnel and equipment on the site. The solution monitors workers and heavy equipment to identify hazardous situations and sends instant alerts to managers. A unique ID is assigned to each worker, their position is tracked even if only part of their body is visible.

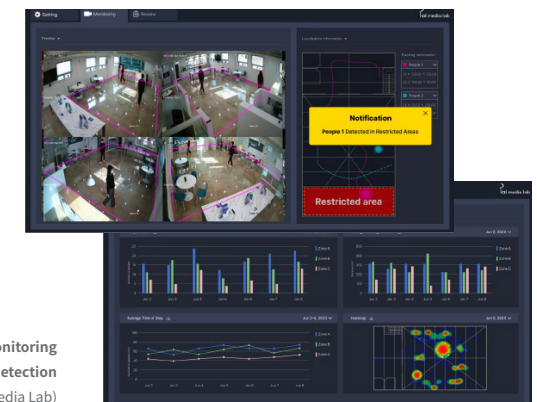
It uses deep learning technology to effectively minimize false detections. False detection data is automatically categorized into a dedicated folder within the administrator's account, and the algorithm re-trains itself at a scheduled time each day. CAI safe is an on-device camera system that operates without the need for additional servers. It can also measure air quality, temperature and humidity.

## PAI Media Lab's Growth and Future Outlook

PAI Media Lab aims to implement industry-leading AI algorithms and practical, error-free operational software based on CCTV footage provided by businesses. Currently, CAI Safe's core algorithms and operational software have successfully completed performance certification and development by learning on 600,000 field data samples and have secured high reliability. More than 120 CAI safe units are already in use at Hyundai Motor Group's Singapore Global Innovation Center. PAI Media Lab plans to expand into North America and Europe with an appropriate marketing strategy starting in 2025.



"CAI safe": AI-Based Workplace Safety Monitoring System Based on Object Location Detection  
(Source: PAI Media Lab)



AI Pet Cam Service for Behavior and Health Analysis with a Smartphone

**Petpeotalk**

Petpeotalk operates "Dogibogi," an AI-powered pet behavior recognition and monitoring platform.

The company, founded in January 2019, has secured KRW 580 million in funding.

**Company Name**

Petpeotalk

**CEO**

Ryunhwan Kwon

**Key Product/Service**

Dogibogi

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Visual Intelligence



dogibo.ai

**petpeotalk'**



**"Dogibogi":  
Monitoring Pet Behavior  
and Health Using  
SIM-Free Smartphones**

Dogibogi is an AI camera platform specialized for pets. With it, users can repurpose a SIM-free smartphone as a CCTV camera and record only when AI detects pet activity instead of continuous monitoring. Dogibogi uses AI-powered video analysis to track and analyze pet behavior.

The system incorporates three AI models for behavior recognition, namely object detection, barking detection, and pose estimation. It currently detects 11 different behaviors, including barking, spinning, and scratching. Based on this data, it provides monitoring services for separation anxiety and patellar luxation care.

**More Than Just Home  
Surveillance Camera,  
with Specialized Services  
for Communication and  
Health Monitoring**

There are many pet cam services on the market that can remotely monitor pets, but most function at the level of a basic home camera. Dogibogi's uniqueness comes from its ability to focus exclusively on pets using AI-driven behavior recognition to assist with health monitoring and care. More than just a pet webcam, Dogibogi strengthens the bond between pets and their owners, and offers remote care with "Dogi Sound," which helps soothe and comfort pets.

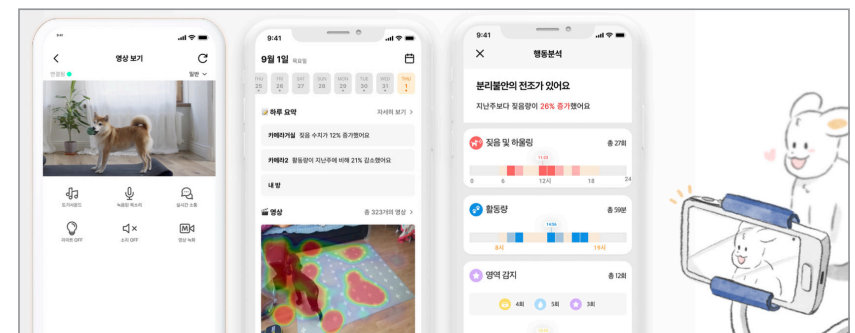
With Dogibogi, there is no need to purchase additional hardware; simply repurpose a SIM-free smartphone or tablet to get started for better user accessibility.

**Petpeotalk's Growth and  
Future Outlook**

Dogibogi has accumulated 130,000 app downloads and has attracted 16 million subscribers since it launched a paid subscription plan in 2023. Petpeotalk aims to achieve profitability by the first half of 2025 and secure Series A funding. The company plans to expand its IoT device lineup, including a Dogibogi-exclusive pet camera, to enter the global market starting with North America and Japan.

The company plans to improve its pet care technology by upgrading existing services for separation anxiety and patellar luxation care, and expand into skin disease treatment services. Using its expertise in pet healthcare AI, the company will be developing new revenue models by partnering with pet insurance providers and veterinary clinics.

Mobile App Interface of "Dogibogi," an AI-Powered Pet Behavior Recognition and Monitoring Platform  
(Source: Petpeotalk)



CCTV Solutions Based on Multi-Modal AI

**PIAspace**

PIAspace provides an intelligent video analysis solution powered by multi-modal AI technology.

The company was founded in April 2021.

It has secured KRW 3.43 billion in seed funding.

**Company Name**

PIAspace

**CEO**

Hyunsoo Yoo

**Key Product/Service**

MACS

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- AI Tools & Platforms
- Visual Intelligence



[pia.space](https://pia.space)

**PIA<sup>x</sup>**

## "MACS": Multi-Modal AI-Based CCTV and Video Analysis Solution

PIAspace's flagship solution is a Multi-Modal AI for CCTV Safety Solution (MACS). MACS is a multi-modal AI-powered solution that understands, analyzes, and interprets the context of CCTV video footage.

Unlike conventional CCTV systems, MACS can comprehend visual context and detect complex situations that match the user's predefined prompts. It detects various situations, including violence, smoking, hazardous situations, heavy equipment interference, flooding, fires, and falls, and automatically sends warnings based on analysis. The solution offers seamless integration with API, cloud server, or on-premise deployment.

## A Cost-Effective and Competitive Solution

Existing computer vision AI-based CCTV solutions often have limited detection capabilities and require human monitoring for accuracy. MACS overcomes these limitations and significantly reduces false detections and missed events by integrating multi-modal AI models.

MACS improved situational analysis capabilities by utilizing a multi-modal AI that combines language intelligence with video recognition. In recommendation system performance tests, MACS outperformed OpenAI by 12% points. It also offers a competitive pricing advantage. Existing intelligent CCTV solutions require higher costs due to bundled hardware and software. By contrast, MACS is a software-only solution and is more affordable than others. MACS-supported software is compatible with all hardware.

## PIAspace's Growth and Future Outlook

MACS is already being integrated into public institutions and enterprise-level centralized monitoring systems. In particular, Incheon Port Authority has increased port security efficiency by using MACS as an illegal immigration monitoring solution. MACS is being used as a fire detection solution at plants of manufacturing companies such as EcoPro and Kumyang. At Coupang Fulfillment Centers, MACS automatically detects unauthorized food consumption, theft, and safety violations to increase on-site operational efficiency and employee safety.

PIAspace is also expanding internationally. The company is collaborating with robotics company KABAM Robotics in Singapore to integrate MACS into unmanned robots at Changi Airport. In Indonesia, the company is working with a real estate management firm on a pilot project for an AI-driven property management solution.

PIAspace plans to expand MACS as system software as a service (SaaS) to make it accessible beyond on-premise deployments. The SaaS model will extend beyond industrial and public institutions to include home CCTVs, drones, and robots. The company is collaborating with AI semiconductor firms to develop on-device AI-powered CCTV solutions.

Intro Image of "MACS," a Multi-Modal AI-Powered CCTV and Video Analysis Solution  
(Source: PIAspace)



Painless Registration of Pets for Biometric  
Identification Without Bioimplants

**PIRECO**

Unlike human iris or fingerprint recognition, it is far more difficult to  
obtain biometric data from animals.

PIRECO specializes in nose print recognition technology,  
and offers a simple and non-invasive pet registration service.

The company, founded in September 2018, has secured KRW 700 million in funding to date.

**Company Name**

PIRECO

**CEO**

Yibin Yang

**Key Product/Service**

ID:CO

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- AI R&D



[pireco.org](http://pireco.org)



**"ID:CO":  
Mobile Nose Print  
Recognition Service for  
Easy Pet Registration**

PIRECO's ID:CO, its flagship product, is a mobile-based pet registration service that uses nose print recognition technology. A dog's nose print, like a human fingerprint, is unique to each individual and is a reliable form of biometric identification. Since dogs are not stationary when capturing biometric data such as iris or fingerprint scans, ID:CO uses AI-powered mobile recognition to automatically detect and identify nose prints.

To capture a nose print, pet owners can open the ID:CO app and use their smartphone camera to scan their dog's face and nose, and the AI detects when the nose wrinkles are fully visible and captures the unique nose print. The system then learns and stores the nose print for instant re-identification by simply scanning the dog's nose with a camera.

**Replacing Bioplastics  
with Technology that  
Captures and  
Recognizes Nose Prints  
with Smartphones**

Previously, lost pets were identified using implanted microchips or collar-mounted ID tags. However, with nose print recognition, a dog's unique nose wrinkles can be registered and used for identification, just like human fingerprints. This pain-free biometric solution offers quick identification of stray and lost dogs.

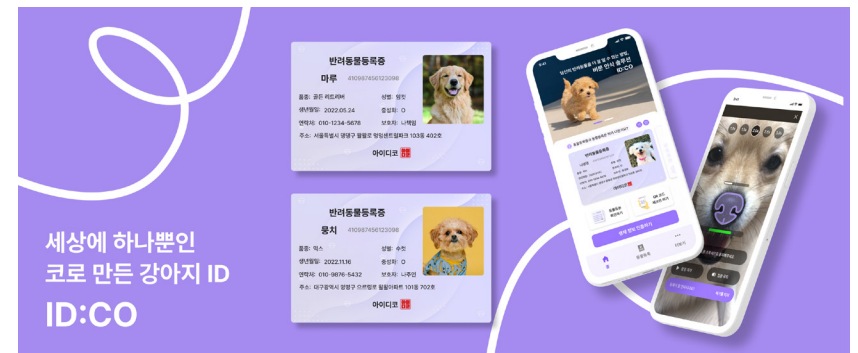
PIRECO analyzed millions of dog nose print images to establish the optimal recognition range and resolution for accurate identification, resulting in the creation of the world's first international biometric identification standard for pets. In 2024, PIRECO's technology was officially designated under the Animal Registration Regulatory Sandbox Program, and it is being commercialized in earnest.

**PIRECO's Growth and  
Future Outlook**

ID:CO is available on the App Store and Play Store, and provides a convenient pet registration service for pet owners. More than 10,000 pets have been registered through the platform so far. With anticipated legislative changes in pet registration, PIRECO plans to establish its nose print recognition as a standard for pet registration in South Korea before expanding its sales network globally.

The company plans to offer its proprietary nose print recognition technology as a software development kit (SDK) to integrate with pet industry platforms and insurance providers for use in insurance sign-ups, membership verifications, and other pet authentication services.

"ID:CO": Mobile Nose Print Recognition Service for Easy Pet Registration  
(Source: PIRECO)



Automated Semiconductor Circuit Inspection with Vision AI

**REXOLUTION**

REXOLUTION specializes in automating quality inspection for semiconductor PCBs using Vision AI technology.  
The company was founded in August 2024.  
It has raised KRW 150 million in pre-seed funding.

**Company Name**

REXOLUTION

**CEO**

Hyuk Kim

**Key Product/Service**

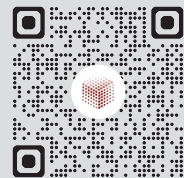
REX1

**Industry**

Visual Intelligence

**Technology**

• Computer Vision



REXOLUTION.ai



### "REX1": Catching Even the Subtlest Defects Using Deep Learning Technology

The core technologies behind REXOLUTION's REX1, the automated PCB inspection solution, are Super Resolution (SR) and Small Object Detection (SOD). SR is a deep learning technology that improves the quality of low-resolution videos to super-resolution ones. It helps identify subtle defects in meticulous sectors such as PCB manufacturing.

SOD is a deep learning-based technology that automatically detects defective products and has been trained on approximately 10,000 pieces of data on defects. It is employed for visual inspections to identify defects in PCBs. REXOLUTION has now expanded SR and SOD technologies, which have previously undergone validation testing in the medical industry, into the semiconductor manufacturing sector.

### Minimizing Training Time and Errors to Replace Defect Detection Equipment and Personnel

Conventional rule-based circuit inspection equipment could only detect defects within a limited range of learned cases and required additional learning whenever a new error was found. However, REX1, which uses deep learning-based inspection, minimizes inspection errors without requiring further training. While conventional equipment requires a visual inspector for support, this is no longer the case for REX1.

REXOLUTION has installed and started operation of REX1 on the production line of a company specializing in PCBs for the defense industry in Korea. As a result, it now detects defective products that could not previously be identified by electron microscopes, and has reduced inspection time by 44%.

### REXOLUTION's Growth and Future Outlook

REXOLUTION has signed contracts with three companies in Korea and is planning to conduct proof of concept (PoC) projects with two additional companies in 2024.

After establishing successful cases in Korea, it aims to expand into the Vietnamese market. It intends to obtain the local electronics mark certification in Vietnam (CR Certification) by 2026, followed by further expansion into the Chinese market in 2027.

By the first half of 2025, the company will collect 10,000 pieces of data on defects before launching its new product, "REX2." When REX2 is released, it is expected to evolve from merely assisting operators to replacing inline equipment.



"REX1" - PCB Defect Inspection Equipment  
(Source: REXOLUTION)

AI Video Production at a Fraction  
of the Cost

## Studio Free Willusion

Studio Free Willusion provides AI video production services.  
It replaces previously expensive filming and CG work with advanced AI video technology.  
The company was founded in June 2023.

**Company Name**

Studio Free Willusion

**CEO**

Hanseul Kwon

**Key Product/Service**

High-Quality  
AI Video Production Service

**Industry**

Visual Intelligence

**Technology**

- Generative AI
- AI Tools & Platforms
- AI R&D
- Visual Intelligence



[studiofreewillusion.com](https://studiofreewillusion.com)





## The Story of Studio Free Willusion's Solution

Studio Free Willusion is transforming video production by replacing costly filming and CGI work with advanced AI video technology. It has the technology to combine and integrate various AI models needed for video production and the creatives to produce high-quality AI-generated videos.

It holds a patent for its AI-powered sound effects generation model. It has developed an AI model that integrates video and audio for the production of content tailored to the Korean market. It is competent in AI-powered filmmaking, advertising, and concept teasers with its cutting-edge technologies such as T2I and I2V.

## Competitive Edge of Studio Free Willusion

While many AI companies focus on short-form content, Studio Free Willusion specializes in producing high-quality AI-generated films, dramas, and advertisements for the premium video market.

The company has demonstrated its expertise with numerous AI-generated video projects, including AI-powered advertisements for government agencies and major corporations, and has gained recognition on the global stage, winning both the Grand Prize and Audience Award at the inaugural Dubai International AI Film Festival.

One of its competitive edges is its unique team that brings together AI artists—a newly emerging creative field—and AI developers.

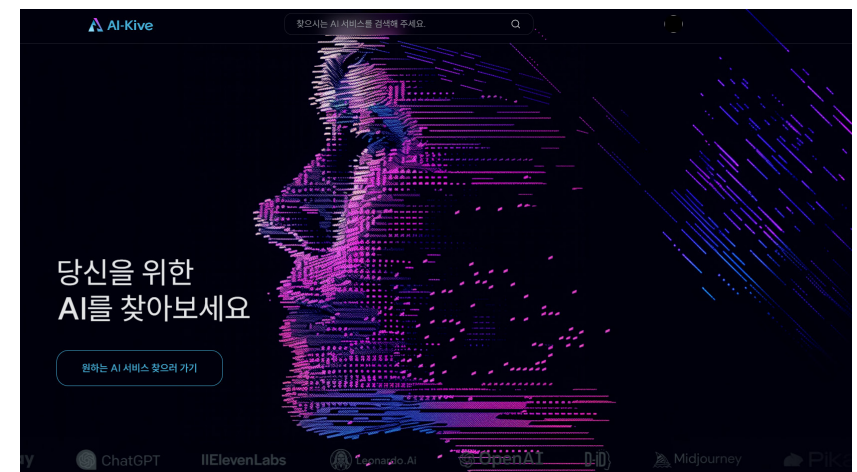
## Studio Free Willusion's Growth and Future Outlook

Studio Free Willusion has earned recognition at major domestic and international film festivals, winning both the Grand Prize and Audience Award at the inaugural Dubai International AI Film Festival.

It also won first place at Quebec Startup Day in Canada and the Excellence Award from Seoul National University's Startup Networking and Accelerating (SNAAC). Additionally, it has established a research collaboration partnership with Mila, a leading AI research institute in Canada. On the intellectual property front, it has registered one AI-related patent, filed nine trademark applications, and submitted a PCT application. Its AI content production sales reached KRW 3.5 billion in the first half of 2024.

Looking ahead, Studio Free Willusion is committed to changing the paradigm for the industry by maintaining its position as the top player in high-end AI video production to lead the AI content market. Its goal is to create an in-house platform channel (AI-Kive) to distribute AI content, moving beyond the wikification and formation of community for its AI services, and to scale up as a content production company with AI-driven intellectual property (IP) ventures.

Your Gateway to AI-Powered Content (AI-Kive) (Source: Studio Free Willusion)



Producing Product Detail Page within  
30 seconds for E-Commerce

## Studio Lab

Studio Lab offers e-commerce content automation solutions, including "Seller Canvas," which automatically generates product detail pages for online sellers and "Photobot," a solution that automates the photo-taking process. Studio Lab, founded in June 2021, Studio Lab has secured investment from Samsung Venture Investment Corporation and Springcamp.

**Company Name**

Studio Lab

**CEO**

Sunghoon Kang

**Key Product/Service**

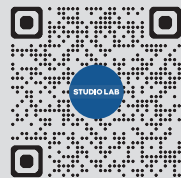
Seller Canvas Photobot

**Industry**

Visual Intelligence

**Technology**

- Generative AI
- Robots & Autonomous Systems
- AI Tools & Platforms



studiolab.ai

**STUDIO LAB**

## "Seller Canvas":

### Automatically Generating Product Pages with Ease for Online Sellers

Seller Canvas by Studio Lab is a Software as a Service (SaaS) solution that automatically generates detailed product pages in only 30 seconds by simply uploading an image and entering basic product details. Powered by OpenAI's large language model (LLM) GPT and Studio Lab's proprietary machine learning algorithms, Seller Canvas makes it easy for anyone to create professional-grade product pages.

The creation of detailed web pages that used to take about five days can now be done in about 30 seconds. The tool simultaneously analyzes both images and text, automatically arranges photo layouts, writes product descriptions, and designs detailed web pages.

Photobot is an AI robot that combines intelligent robotics with photography services. It automates more than 90% of the product photography process and can independently capture images without the need for a professional photographer. Using real-time analysis, it finds the best camera angles, adjusts camera settings automatically, and takes photos from any perspective in any background users want with its robotic arm and autonomous navigation.

## Competitive Edge of Studio Lab

Studio Lab is revolutionizing commerce content creation by automating more than 90% of what was once a manual, time-consuming, and costly process. Seller Canvas makes content creation effortless with generative AI that instantly generates complete ready-to-use content.

Photobot offers complete flexibility with its ability to move on its own and captures images from any angle without spatial limitations. Powered by advanced AI object recognition and fashion product tagging, Photobot can automatically photograph a wide range of products from moving models to large appliances and

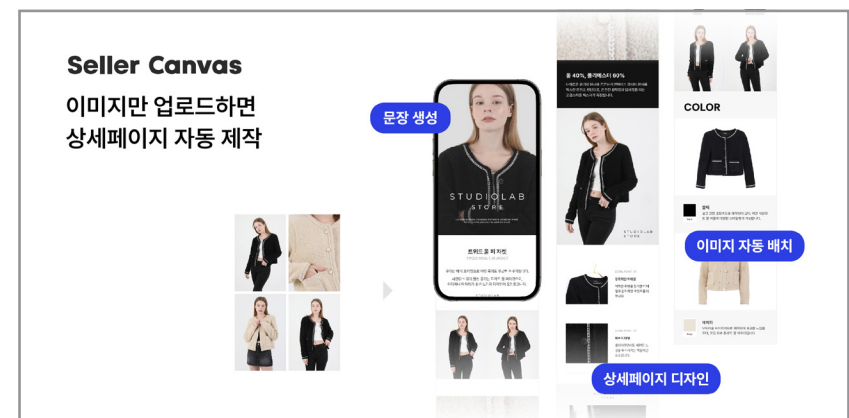
delicate jewelry. For an extra touch of creativity, users can even apply the style of a specific creator to their content.

## Studio Lab's Growth and Future Outlook

Studio Lab, founded in June 2021, has secured investment from Samsung Venture Investment and Springcamp. In 2022, it was recognized as the top-performing startup in the Preliminary Startup Package program and received the Minister of Trade, Industry, and Energy Award. In 2024, it won the "CES 2024" Best Innovation Award in AI and the Grand Prize at the eCommerce Pitching Festa and more. Seller Canvas has already conducted PoC projects and signed contracts with major fashion companies both in Korea and abroad. Photobot also teamed up with The Hyundai Seoul for a special pop-up event celebrating the department store's third anniversary.

Studio Lab plans to officially launch Seller Canvas later this year. Starting in 2025, it plans to expand its reach beyond fashion to all industries. Its ultimate goal is to become a fully automated solution for the creation of all types of content needed in e-commerce.

Image of "Seller Canvas," Studio Lab's Gen-AI Page Creation Tool  
(Source: Studio Lab)



AI-Driven Camera Analysis that  
Identifies Gender, Clothing,  
Behaviors and More

**Triplet**

Triplet provides various offline spatial data using  
AI camera-based recognition technology.  
The company, founded in May 2015, the company has secured  
KRW 500 million in seed funding.

**Company Name**

Triplet

**CEO**

Donghwa Shin

**Key Product/Service**

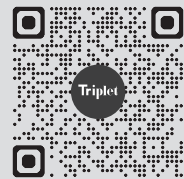
DeepLounge

**Industry**

Visual Intelligence

**Technology**

- Computer Vision
- Data Analysis & Visualization
- Edge Computing
- Security & Privacy
- Visual Intelligence



[triplet.com](http://triplet.com)

**Triplet**

## "DeepLounge": Spatial Analytics Solution

At the core of Triplet's technology is AI-driven recognition for gender, age, and movement tracking. DeepLounge is an AI-powered spatial analytics and safety management solution built on this.

DeepLounge is particularly effective in the retail sector. AI cameras identify a customer's gender and age when they enter a store, and then tracks movement patterns, dwell time, and purchasing behavior. Businesses can use this data to analyze trends, optimize store operations, and increase customer loyalty. DeepLounge anonymizes facial data using a convolutional neural network (CNN) model to prevent the risk of personal data exposure.

DeepLounge's AI-powered analytics technology also applies to the area of safety management for commercial spaces and industrial sites. It can be used to detect fire, smoke, and oil leaks while monitoring worker behavior and identifying falls, violence, and proper use of safety gear. It instantly alerts managers with connected devices and performs real-time remote monitoring to improve incident response and workplace safety.

## Competitive Edge of Triplet

Triplet has developed a versatile AI model based on five years of experience in supplying AI video analysis solutions. Triplet has successfully commercialized solutions for complex indoor spaces such as video art exhibitions in resorts, as well as outdoor locations where environmental factors pose difficulties.

Triplet's AI solutions boast a 92% accuracy rate, as verified by certified testing institutions and cross-validated by major retail corporations. The company has integrated large multi-modal model (LMM)-based AI for universal behavior recognition that minimizes the need for additional training.

DeepLounge solutions are currently deployed at major companies and locations, including GS Caltex, GS Retail, Hyundai FutureNet, and Hallasan National Park.

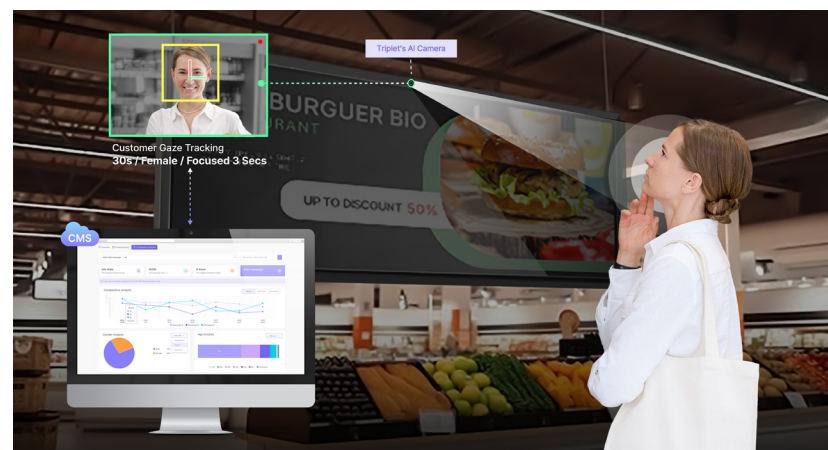
## Triplet's Growth and Future Outlook

Triplet plans to extend its reach into various industries where its solutions are adopted. The company will broaden its business scope from retail, fashion, and public spaces (libraries, national parks) to refineries, pop-up stores, trade shows, and exhibition halls.

Triplet is also preparing for its international expansion. The company has partnered with Lighting Environment (LE), a U.S.-based spatial solutions provider, to enter the North American market. They will introduce a smart building solution that integrates LE's existing IoT technology with Triplet's AI-powered spatial analytics.

Triplet will also launch its offline targeted advertising AI solution this year. This is a performance-based advertising CMS platform powered by AI. The digital displays with embedded AI cameras analyze advertising effectiveness and help businesses optimize their targeted product marketing strategies. Triplet conducted a PoC with a major convenience store franchise in South Korea in 2023 and successfully validated the technology, and is now in discussions for adoption within the year.

Image of Triplet's Offline Targeted Advertising AI "DeepLounge"  
(Source: Triplet)



Determined to Become the First Mover in  
AI-Driven Eye-Tracking Technology

## Visual Camp

Visual Camp is on a mission to become a global first mover in AI-driven eye-tracking technology.

The company has successfully commercialized mobile eye-tracking solutions  
and is applying them in education to analyze and enhance students' literacy skills.

**Company Name**

Visual Camp

**CEO**

Yoonchan Seok

**Key Product/Service**

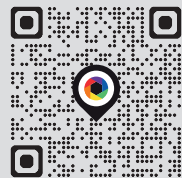
Read

**Industry**

Visual Intelligence

**Technology**

- Generative AI
- Data Analysis & Visualization
- AI Tools & Platforms



[visual.camp](https://visual.camp)



## The Story of Visual Camp's Solution

Read is an AI-driven reading proficiency solution that uses eye-tracking technology to analyze students' reading patterns and recommends personalized training courses for each student to help improve their literacy skills.

## Competitive Edge of Visual Camp

Visual Camp's eye-tracking technology works seamlessly with smartphones, tablets, and laptops using built-in front-facing RGB cameras. The technology runs directly on web browsers such as Chrome, Edge, and Whale, and requires no separate apps or software installations. Thanks to this compatibility, there is no need to use specialized eye-tracking devices (Eye-Trackers). Therefore, it helps to reduce hardware costs and secure accessibility for a large customer base. VisualCamp provides best-in-class accuracy in the mobile eye-tracking technology market with 1.55-degree precision, outperforming Apple's latest technology (2.5 degrees) and featuring technologically advanced one-point vision calibration.

## Visual Camp's Growth and Future Outlook

Visual Camp's technology has been recognized internationally, and it won the CES Innovation Awards in 2022 and 2023 and the MWC Spain Mobile Innovation Award. Its "Read for School" diagnostic and training program is being developed in collaboration with Korean language education experts from Seoul National University, Hanyang University, and Ewha Womans University. As part of this effort, Visual Camp partnered with these institutions to launch "READ Computerized Actualized Testing (RoCAT)," an AI-powered literacy assessment tool, in July 2024.

As part of its long-term vision for growth, Visual Camp revealed its ambition to expand Read's presence in the global edtech market. Furthermore, it plans to become a leading edtech company that contributes to literacy development in all languages worldwide.

"Read": AI-Powered Eye-Tracking  
Literacy Solution  
(Source: Visual Camp)



Markerless 3D Multi-Person Motion  
Capture Solution Using Only Cameras

**WiSH**

WiSH is a startup that developed solutions for autonomous monitoring  
and multi-person motion capture using AI video analysis.  
The company was founded in May 2023.

**Company Name**

WiSH

**CEO**

Hyun Hwang

**Key Product/Service**

WiMotion

WiVision

**Industry**

Visual Intelligence

**Technology**

- Computer Vision • NLP
- Robots & Autonomous Systems
- AI Tools & Platforms
- Visual Intelligence
- Speech & Language Intelligence





### AI-Powered Autonomous Monitoring "WiVision" and Markerless Motion Capture "WiMotion"

WiSH's flagship products include WiVision, an AI-powered video analysis solution, and WiMotion, a real-time markerless motion capture system. WiVision uses AI to analyze CCTV footage and performs 24/7 autonomous monitoring. WiMotion processes unstructured video data, such as human movement captured by cameras, to generate 3D motion capture.

### Precision Motion Capture with Only a Camera and PC

What distinguishes WiSH from others is its real-time and non-real-time 3D motion estimation technology. Current motion capture requires actors to wear expensive marker suits and perform in specialized studio environments, and the process is cumbersome and costly. WiMotion can be used with only a few ordinary cameras and a single AI-powered PC. It requires no additional equipment or specialized suits, thus lowering barriers to 3D motion capture entry.

WiMotion extracts necessary data from unstructured video footage captured by cameras or vision sensors and refines it using AI-powered video analysis. Real-time motion capture supports up to 10 individuals simultaneously, and offers a seamless visual experience with a purely estimated rate of 30 FPS. Non-real-time precision motion capture uses large AI models to track more than 100 body points, including both hands and facial movements, and adjusts motion based on anatomical structure for seamless and natural transitions between frames.

### WiSH's Growth and Future Outlook

WiSH is generating revenue from its commercialized product, WiVision, while simultaneously refining WiMotion to upgrade its product capabilities. WiVision has already been deployed in more than five locations and is collaborating with clients on LLM integration for advanced CCTV video analysis to strengthen the product's value and marketability. WiMotion is actively entering the virtual entertainment market, such as working with VTubers to power live performances. WiSH intends to expand its applications into film, TV series, game production, and more.

WiSH is applying its AI video analysis technology to the autonomous driving sector. Currently, it has partnered with a domestic firm for a pilot project and is using this as a stepping stone for expansion into the United States and other global markets.

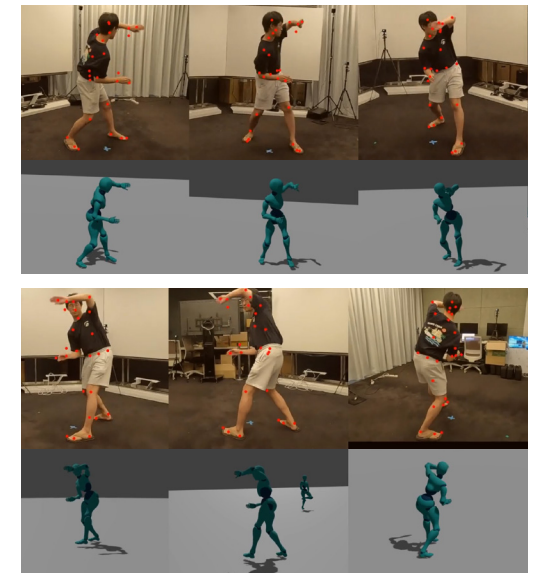
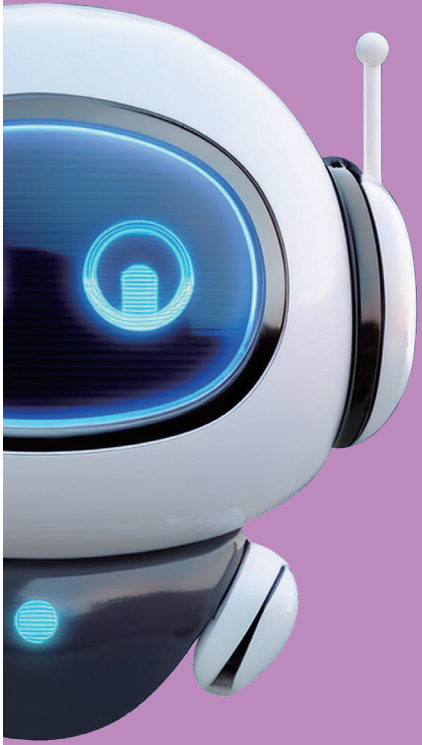


Image of Real-Time Markerless Motion Capture Solution "WiMotion"  
(Source: WiSH)

# AI CHALLENGE INTELLIGENCE



## AI Startups from Seoul AI Hub

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Aardvark

Data B

Swevenz

VODABI

AI-Generated SAT-Style Mock Exam  
Questions and Distractors

**Aardvark**

Aardvark is a developer of "Qpilot," an AI model that creates  
SAT-style English exam questions.  
The company was founded in May 2024.

**Company Name**

Aardvark

**CEO**

Jaeyoon Lee

**Key Product/Service**

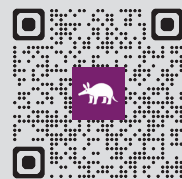
Qpilot

**Industry**

Language Intelligence

**Technology**

- Computer Vision
- NLP
- Generative AI
- Data Analysis & Visualization
- Cloud & AI Infrastructure
- Speech & Language Intelligence
- Reinforcement Learning
- Machine Learning



[aardvark.co.kr](http://aardvark.co.kr)

**Aardvark** 

## "Qpilot": AI-Driven Exam Question Generator for High-Probability Test Content

Qpilot is an AI-powered question generation tool designed for test prep academies, schools, and educational institutions, and helps them to create a wide range of English mock exam questions quickly and efficiently. If users input test topics or English source texts, the AI analyzes its database to identify relevant passages and predict the most likely question types.

This process includes selecting suitable question types and creating problems based on the extracted texts. Qpilot is trained on specialized test formats (e.g., fill-in-the-blank, sentence order, insertion, agreement) and has greater precision than general-purpose AI text generators.

It not only creates questions but also generates correct answers and distractors. It generates suitable answer choices by considering difficulty and student level, using a specialized answer choice generation agent that includes features such as word count adjustment and specific methods for generating answer choices.

## Designed Specifically for Korea's CSAT and Replicates KICE's Exam Logic

General AI models, such as ChatGPT, are trained to avoid logical errors, so they struggle when creating standardized test questions. Generic AI lacks an in-depth understanding of the College Scholastic Ability Test (CSAT), which makes it difficult to accurately reflect official question patterns. Aardvark has overcome these limitations by developing an AI model specialized in CSAT-style English exam creation.

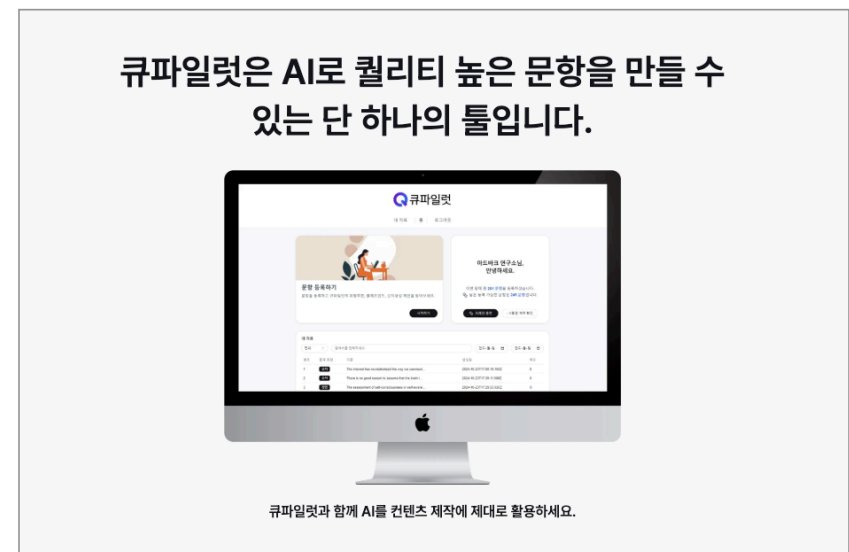
Qpilot integrates the logic of the Korea Institute for Curriculum and Evaluation (KICE) into its AI to generate very accurate answer choices without requiring separate prompting. With a single click, users can generate key test patterns, such as causal reversals and excessive inferences, that mirror official test question trends. Qpilot features intuitive UIs for better user accessibility.

## Aardvark's Growth and Future Outlook

Aardvark launched the beta version of Qpilot in June 2024, and partnered with major test prep companies and Daechi-dong academies for paid pilot studies. In July of the same year, the company secured seed investment from the startup accelerator Primer.

Aardvark plans to extend its business beyond the English section of the college entrance exam to include other subjects and tests. The goal is to offer services for the Korean language subject by 2025 and to develop exam questions for adult education, such as TOPIK and civil service exams.

Key Features of Qpilot: AI-Powered CSAT-Style English Question Generator  
(Source: Aardvark)



AI Writing Assistant for Native-Level  
English Anywhere

## Data B

Data B offers "Engram," an all-in-one English writing AI tool that combines a translation tool, grammar checker, and paraphrasing assistant in a single platform.

The company was founded in August 2018.

It has secured investments from Hana Ventures, Strong Ventures and VentureSquare.

### Company Name

Data B

### CEO

Seunghyun Oh

### Key Product/Service

Engram

### Industry

Language Intelligence

### Technology

- NLP
- Generative AI
- Speech & Language Intelligence
- Machine Learning



[engram.us](https://engram.us)

 **Engram**

## "Engram": More Than Just Translation, an All-in-One English Writing AI Tool

Data B's Engram is an AI-powered English writing tool that combines a translation tool, grammar checker, and paraphrasing assistant in a single platform. It uses the latest generative AI technology to provide very natural and precise translations while refining drafts with English proofreading and paraphrasing functions.

Currently, more than 60,000 professionals from global corporations and educational institutions rely on Engram for English communication. At its core, Engram integrates AI translation, English proofreading, and paraphrasing technology. The AI translation technology detects the input language and translates it into the user's preferred language.

The AI-based English proofreading technology uses deep learning algorithms to identify grammar mistakes and unnatural phrasing, and an LLM-based generative model provides suggestions. The AI-based English paraphrasing technology uses a generative model to adjust sentences to match users' preferred tone and writing style, and offers seven different styles to suit their needs.

### Competitive Edge of Data B

What sets Engram apart is that it not only provides natural and accurate translations but also includes built-in English proofreading and paraphrasing tools to help refine drafts. The English proofreading feature is especially useful for correcting grammar errors and awkward phrasing after users make their own edits. The paraphrasing tool makes it easy to adjust sentences based on context, such as for academic writing, shortening text, or refining style.

One of Engram's key strengths is that it is specifically designed for non-native speakers. By combining a proprietary deep learning model with generative AI algorithms, it can effectively detect common gram-

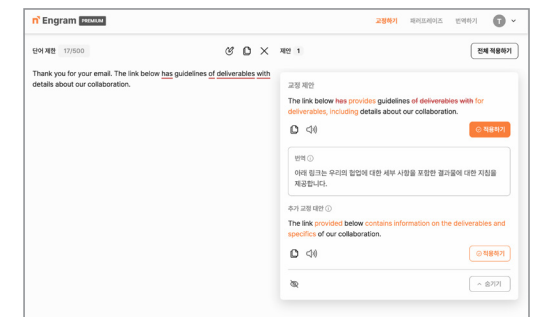
### Data B's Growth and Future Outlook

mar mistakes and awkward expressions to help users create more natural English sentences.

Data B launched Engram, its English proofreading AI service, in 2021 and secured seed investment from Hana Ventures. It received follow-up investment from Strong Ventures and VentureSquare in 2022. Data B was selected for the Ministry of SMEs and Startups' TIPS program in 2023. Later that year, the company established a U.S. subsidiary to accelerate global expansion.

Data B plans to accelerate product improvements and global expansion in the coming years. The company will focus on improving its core capabilities in English translation, proofreading, and paraphrasing. It also plans to expand mobile functionality by integrating camera and voice input so that users can access the service anytime, anywhere with ease. It is ramping up efforts to acquire new customers outside of South Korea, particularly in the United States, Japan, China, and Latin America.

Interface of "Engram,"  
Data B's All-in-One English Writing AI Tool  
(Source: Data B)



AI-Driven Consumer Keyword Analysis  
for Marketing Insights

Swevenz

Swevenz operates "ConsumerInSearch," an AI-powered service platform for marketing intelligence that analyzes consumer search intentions. The company was founded in August 2022.

**Company Name**

Swevenz

**CEO**

Woojin Lee

**Key Product/Service**

ConsumerInSearch

**Industry**

Language Intelligence

**Technology**

- NLP
- Data Analysis & Visualization
- AI R&D



swevenz.com



## "ConsumerInSearch":

### AI Trend Analysis for Marketing Strategy Using Generative AI

ConsumerInSearch is an AI-driven marketing intelligence platform that uses generative AI to automate data generation and extract marketing insights. The platform automates data collection, refinement, semantic search statistics, and trend analysis.

ConsumerInSearch offers five core functions to help brands and products define their marketing strategy. The BRAND INDEX feature compares search volume between competing brands and analyzes the market share and visibility of each brand throughout the consumer purchase journey. The HOT TREND feature identifies surging keywords so that businesses can track shifts in consumer demand and predict future market trends. The INSIGHT feature analyzes key attributes at each stage of the consumer journey to understand customer needs and preferences.

The COMPETITION feature compares competitor brand performance at each journey stage and provides insights for competitive positioning and strategy development. Finally, the TRACKING feature evaluates the effectiveness of past marketing campaigns and market dynamics to help brands refine future strategies.

### Tracking Consumer Preferences by Sorting Data into 12 Search Keyword Groups

Existing marketing strategy services only provided keyword data for individual products. Swevenz has improved this approach by using generative AI to analyze search keywords and volume and generating multidimensional trend insights.

The platform automatically categorizes search data into 12 consumer journey-based keyword groups for detailed tracking of brand and product discovery behaviors. The BRAND INDEX quantifies a brand's competitiveness in the market, and the analysis results are automatically visualized to provide data-driven

### Swevenz's Growth and Future Outlook

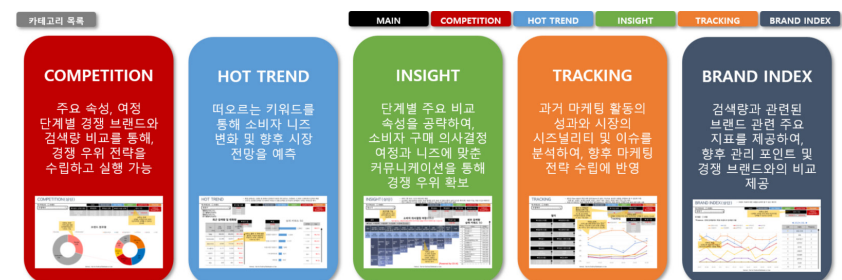
marketing insights. What took a marketing data scientist hours to accomplish can now be done in dozens of minutes.

Swevenz is currently building its platform with a target launch in the second half of 2024 to secure its first global client, a major coffee capsule brand. In addition to Naver, Swevenz plans to expand into international platforms such as Google and Instagram to reach a global audience. It intends to launch services in Japanese and Chinese, along with English, to provide its services globally.

The company plans to upgrade its platform with big data analytics and integrate social media, news, and online shopping trends. It will also develop a machine learning-based automated strategy recommendation system so that businesses can instantly apply insights to their marketing strategies.

Key Features of "ConsumerInSearch," Swevenz's Marketing Insight Platform

(Photo courtesy of Swevenz)





AI Conversation Analytics Service for  
Improved Sales Performance

**VODABI**

VODABI specializes in technology for analyzing sales conversations driven by AI.

The company was founded in January 2020.

It secured KRW 350 million in Pre-Series A funding in 2023.

**Company Name**

VODABI

**CEO**

Jinkook Lee

**Key Product/Service**

VODABI

**Industry**

Language Intelligence

**Technology**

- NLP
- Generative AI
- Speech & Language Intelligence



[vodabi.com](http://vodabi.com)



**"VODABI":  
AI Sales Conversation Analysis and Scoring Service**

VODABI is an analysis algorithm model and solution that analyzes call center and chatbot interactions, evaluates sales conversation quality, and provides sales conversion probability scores. By identifying strong correlations with actual sales performance, VODABI can be used as key indexes for customer service and sales team optimization.

The solution's core technology is AI-powered conversation tracking. VODABI uses the company's patented analysis framework, "BANTCQ," to analyze customer conversations for various channels, including phone calls, video meetings, and messaging platforms. The AI extracts critical information that indicates high sales potential, summarizes key insights and scores conversion likelihood. By simply inputting a sales script, VODABI can generate AI-driven sales conversation datasets.

**Predicting Deal Success and Providing Sales Coaching**

Even when businesses engage in sales conversations with many potential leads, differences in agent skill and experience often lead to missed opportunities. In the past, sales and customer service teams had to review random call recordings to identify issues and coaching points.

With VODABI, companies can focus on leads with high potential. They can intuitively identify areas for performance improvement to increase deal conversion rates, while also automating coaching processes to make sales team and call center operations more cost efficient. A significant advantage of VODABI is the licensing of its proprietary technology framework, BANTCQ, which has enabled the company to target its North American competitors as clients.

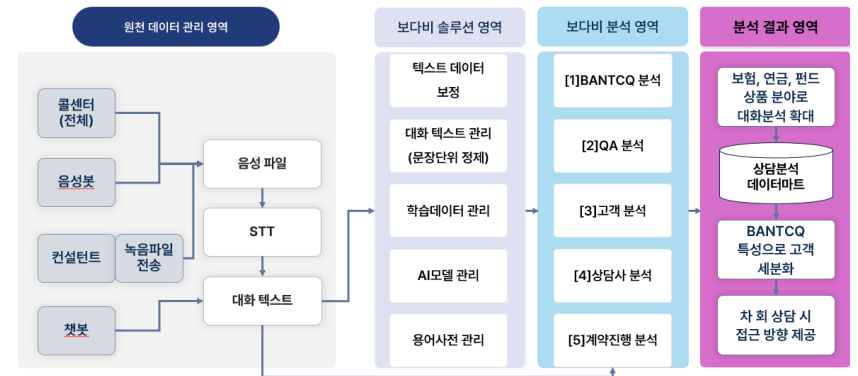
VODABI has also recently started to offer a validation service to assess the performance and real-world effectiveness of AI-powered customer service chatbots, which are increasingly being adopted in the market.

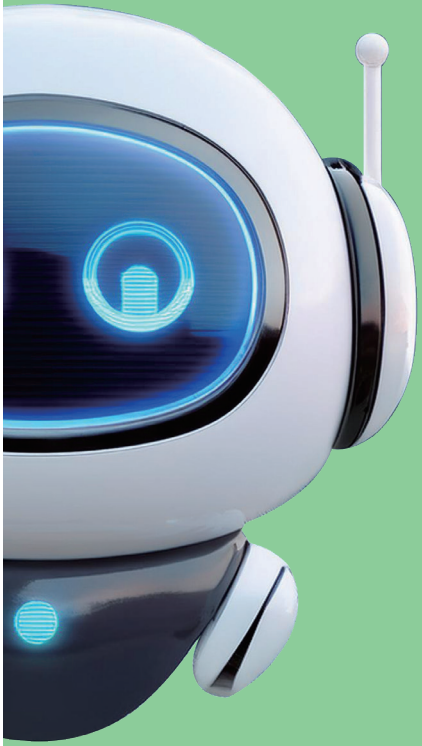
**VODABI's Growth and  
Future Outlook**

VODABI is actively establishing a diverse portfolio of client references. It has partnered with DB Insurance through the AI Hub Testbed Program, using conversation analytics scoring to evaluate call quality. This helped DB Insurance to establish a framework for internal conversation assessments and evaluation strategies. It is currently in discussions with AJ ICT, a subsidiary of AJ Group, to integrate VODABI into their call center operations.

VODABI is focusing on upgrading its AI-powered conversation analytics for the financial sector, and plans to expand its services to small- to mid-sized financial institutions by 2024. Based on its financial sector references, it is setting its sights on international expansion. It plans to launch region- and language-specific conversation analytics scoring solutions with the goal of entering the North American market by 2025.

Key Features of "VODABI," an AI-Powered Sales Conversation Analysis and Scoring Service  
(Source: VODABI)





# VOICING THE FUTURE INTELLIGENCE

## AI Startups from Seoul AI Hub

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MAGO  
The Plan G

AI Voice Analysis for Mental Health  
Management

**MAGO**

MAGO is the company behind the voice AI builder "Odion" and the voice AI-based mental health management platform "Cassette." The company, founded in May 2022, is currently preparing to raise seed funding.

**Company Name**

MAGO

**CEO**

Hyunwoong Ko

**Key Product/Service**

Odion Cassette

**Industry**

Voice Intelligence

**Technology**

• Speech & Language Intelligence



[holamago.com](https://holamago.com)

**MAGO**

**Integrated AI Voice Analysis Web "Odion" and Voice-based Mental Health Management Platform "Cassette"**

Audion is MAGO's integrated web platform that houses its AI voice models. It allows users to extract and manage voice data efficiently. Audion features AI models for speech recognition, synthesis, and detection of speech start and end points. It also includes functionalities to separate speech from non-speech and background noise, as well as to synchronize audio with subtitles for seamless integration.

MAGO's cutting-edge voice AI technology focuses on digital biomarkers and emotion recognition. It provides a service that analyzes voice to detect the health conditions and emotional states of users. Using this expertise, MAGO developed "Cassette," a voice AI-based mental health management platform.

**MAGO's Growth and Future Outlook**

MAGO aims to complete its AI-powered knowledge extraction and voice data management system by 2024 and plans to develop media content analysis and voice dialogue models by 2026. This will enable automated content creation and personalized voice-driven content recommendations.

MAGO also plans to advance its emotion and health detection services. The company is currently collaborating with Naver's CLOVA CareCall on a PoC project designed to detect signs of depression and dementia through phone conversations.

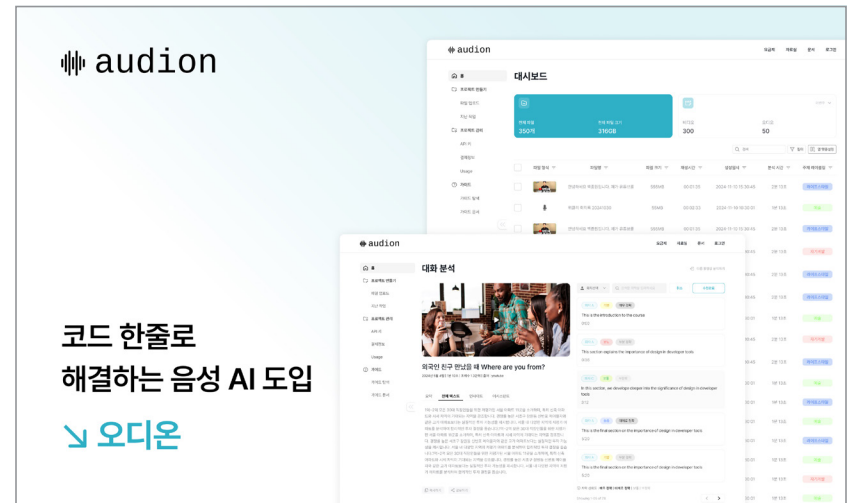
MAGO plans to go beyond mental health detection and expand into the field of medical treatment. The company aims to develop a voice-based conversational AI agent capable of fostering emotional engagement between humans and AI by 2028. When integrated into care robots, this technology could enable more personalized and advanced health-care services.

**AI Voice Analysis for Media Industry and Emotional and Mental Health Care**

Driven by the idea of "analyzing speech as it was meant to be," MAGO has developed an AI-powered voice analysis platform. It extracts key insights from large volumes of audio data to improve media content analysis and management. This technology optimizes content creation and organization.

MAGO's advanced voice analysis technology has evolved to detect emotions and assess mental health conditions through voice. The company is currently in discussions with local governments and enterprises to explore collaborations for Cassette.

Intro Image of "Audion," MAGO's Integrated AI Voice Analysis Platform (Source: MAGO)



AI-Powered English Learning App Using  
the "Teach-to-Learn" Method  
by Training AI Characters

## The Plan G

The Plan G is an edtech startup that developed "Odinga English," an AI-powered elementary school-level English conversation app based on the teach-to-learn method. The company, founded in February 2016, has secured KRW 200 million in seed funding.

**Company Name**

The Plan G

**CEO**

Kyunga Lee

**Key Product/Service**

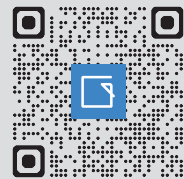
Odinga English

**Industry**

Voice Intelligence

**Technology**

- Generative AI
- Speech & Language Intelligence
- Machine Learning



[theplang.com](https://theplang.com)



## "Odinga English":

### Learning English With AI Characters and Adaptive Conversations

Odinga English is an elementary school-level English conversation app where children take on the role of a teacher and guide the AI character "Odinga" through English lessons. Children teach Odinga and learn English interactively, as if playing a game, with help from Dr. Noah, an in-app English professor.

The app uses Google's API to convert spoken language into text so that the AI character can process and respond with speech, and learners receive personalized sentence scores. The system supports free-flowing conversations at different proficiency levels.

### Gamified English Conversation for Shy Learners

Odinga English applies proven educational theories such as metacognitive learning and the teach-to-learn method to help even reluctant speakers develop confidence in English conversation. Instead of traditional teaching methods, the app uses gamified role-play for maximum speaking practice in a natural and engaging way. What sets the app apart is that it encourages repetitive speaking practice with an AI learning buddy, which makes language learning interactive and enjoyable.

### The Plan G's Growth and Future Outlook

The Plan G received an edtech certification for public education in 2024, and Odinga English was adopted as an official elementary school curriculum resource. The app has also surpassed 150,000 cumulative downloads on the App Store.

The Plan G is expanding its presence in the global education market. After establishing an Indian subsidiary in 2018, the company successfully introduced Odinga English into India's public education system as an official school curriculum resource in 2024. In the future, it plans to launch Odinga Korean and develop the offline version to lead the K-Ed-Tech market.

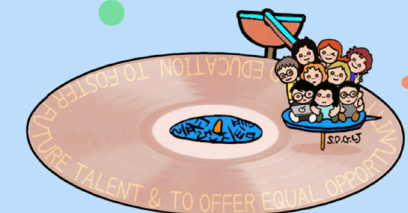
Interface of "Odinga English" (Source: The Plan G)



**Learn.  
Share.  
Live together.**

Team THE PLAN G fosters future talent. We dedicate equal educational opportunity and motivate children in learning with adaptive steam learning solutions.

[See our work](#)



# DATA PROCESSING



## AI Startups from Seoul AI Hub

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AI Guru

AiNEWT

Croft

CUBIG

HyperEZ

Impactive AI

MACHUDA

OnITKOREA

Plask

SNE Company

SNPLab

Tryfifty

Vibezone

WorksBe



Empowering Manufacturing with AI

## AI Guru

AI Guru provides AI solutions for the intellectualization of smart factories.

The company was founded in July 2023.

It provides customized solutions tailored to the unique challenges of each business.

AI Guru is rapidly expanding and securing long-term AI project contracts with major semiconductor companies.

**Company Name**

AI Guru

**CEO**

Jaeyoung Park

**Key Product/Service**

Guru Insight

Guru Inspect

Guru Operate

**Industry**

Data Processing

**Technology**

- Data Analysis & Visualization
- Machine Learning



[aigurucorp.com](http://aigurucorp.com)

# AI Guru

## The Story of AI Guru's Solution

AI Guru provides customized AI solutions to address the specific challenges businesses face. It uses machine learning, deep learning, data analytics, and factory optimization technologies for that. AI Guru has developed and operates three key solutions: Guru Insight, Guru Inspect, and Guru Operate.

Guru Insight helps predict final product yield, enabling businesses to calculate initial or additional input quantities, achieve just-in-time production, and minimize inventory. It also supports foreign material tracking AI, which automatically searches a database for similar contaminants when foreign material analysis data is provided as input.

The Guru Inspect services are expanding into defective product detection AI and data entry error prevention AI. The Guru Operate solution optimizes process recipes using AI and provides "Energy Management" that suggests efficient energy use and "Safety Management" to predict potential safety hazards during equipment operation and recommend preventive measures.

## Competitive Edge of AI Guru

AI Guru stands out for its deep understanding of manufacturing environments and data acquired through extensive experience in handling various manufacturing datasets and developing AI models for various problems to provide customized solutions for each client's industry and specific needs.

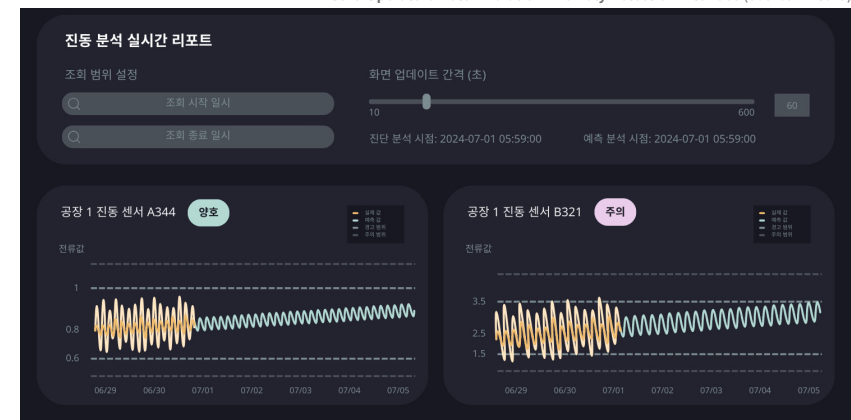
Rather than simply implementing AI solutions, AI Guru focuses on achieving real-world impact and maximizing return on investment (ROI). The company will ensure that AI models remain stable, high-performing, and continuously optimized with MLOps-based AI solutions and ongoing maintenance support.

## AI Guru's Growth and Future Outlook

AI Guru is committed to playing a key role in improving the competitiveness of South Korea's manufacturing industry. As it marks its first year, the company focuses on securing investment, expanding its R&D team, acquiring additional reference-based solutions, and diversifying its revenue models. In the future, AI Guru wants to expand its client base in various manufacturing industries and offer end-to-end AI services covering everything from strategic consulting to infrastructure development and AI solution implementation. It is also preparing to expand into international markets.

In the future, AI Guru will introduce two new solutions to its portfolio: Guru Office and Guru Design. The Guru Office solution aims to leverage AI to automate repetitive, time-consuming tasks, support data analysis and decision making, and increase overall work efficiency. The Guru Design solution will use AI in the design process to generate multiple design options based on given goals and constraints, simulate outcomes and recommend the most optimized design.

"Guru Operate": Motor Vibration Anomaly Detection Interface (Source: AI Guru)



Optimizing AI Model Performance with Data  
Quality Inspection and High-Speed Search

**AiNEWT**

**AiNEWT is a company that provides solutions to help businesses use AI models  
and offers services from data inspection to high-speed search.**

**The company was founded in March 2021.**

**It has secured KRW 2.262 billion in funding.**

**Company Name**

AiNEWT

**CEO**

Sanghyun Park

**Key Product/Service**

DA

Qdrant

**Industry**

Data Processing

**Technology**

- Data Analysis & Visualization
- Solution for Quality Inspection of Dataset for Learning
- Customized sLLM



[ainewt.ai](https://ainewt.ai)



## "DA" for Automated Data Quality Inspection and "Qdrant" for High-Speed Vector-Based Processing

AiNEWT's automated data quality inspection system, data analyzer (DA), is a tool that automatically inspects and validates AI training data. It excels in thoroughly verifying data based on statistical analysis, semantic accuracy, and syntactic precision. It performs full-scale data inspection at high speed or quality management with statistical sampling. It also provides ongoing data management features, such as report generation, to help improve AI model performance.

AiNEWT's data processing service, Qdrant, supports high-speed, vector-based searches in large datasets. This makes it ideal for powering real-time, personalized recommendation systems and accelerating AI model data processing. With its real-time, high-performance search and recommendation capabilities, Qdrant is well-suited for applications that require fast and efficient data analysis.

## Improving AI Data Management with Combining DA and Qdrant to Create Synergies

DA streamlines data cleansing and quality verification, reducing resource consumption, while Qdrant integrates with various embedding technologies to increase data diversity and scalability. AiNEWT has optimized AI data management by combining DA and Qdrant.

By applying Qdrant's real-time search and recommendation system to high-quality data inspected by DA, businesses can achieve both reliable and fast, accurate search results. This combination ensures that AI models maintain both data integrity and processing efficiency throughout training and inference. With the increased scalability of these solutions, AiNEWT offers customized services for industries such as healthcare, machine learning operations (MLOps), and recommendation systems.

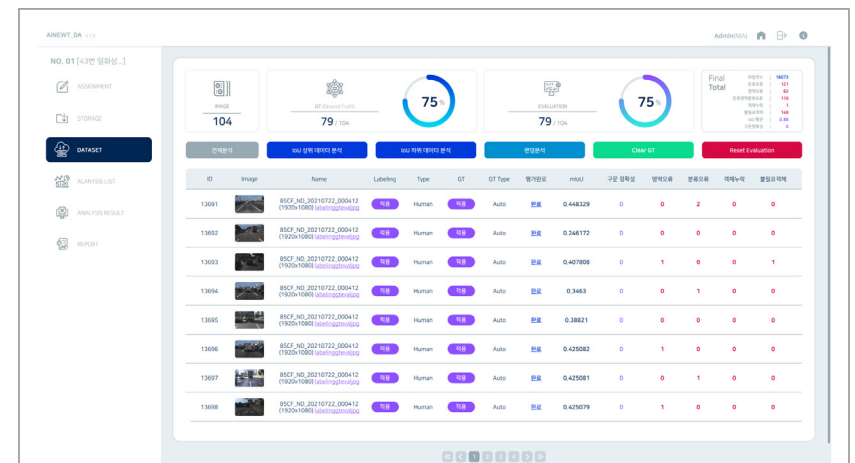
## AiNEWT's Growth and Future Outlook

AiNEWT recognizes that using the DA solution solely for data validation has its limitations, and the company is developing platforms such as "MO DU" (meaning "Everything"), "DA" (meaning "All"), and "HA DA" (meaning "Do") to bridge the gap between data processing and AI services.

"MO DU" is a comprehensive data processing solution that structures and refines documents, videos, and audio for specific applications. "DA" maintains the quality of processed data from MO DU and assesses the real-world applicability of synthetic data for AI. "HA DA" is the core platform where AiNEWT's services operate, and offers a collaborative space for teams.

AiNEWT has also established its "1=111" strategy, which means developing multiple solutions in a single project. By continuously refining the connection between data and AI, the company intends to become a global leader in big data processing.

Monitoring Screen of the Automated Data Quality Inspection System "DA" (Source: AiNEWT)



Transforming Agriculture with  
Greenhouse Optimization Solutions

**Croft**

Croft has developed "CroftOS," an AI-powered greenhouse management solution. CroftOS provides an integrated solution for greenhouse automation and optimization consisting of Crop Monitoring AI, Cultivation Strategy AI and Environmental Control AI.

The company was founded in June 2022.

Secured KRW 400 million in seed funding in 2023.

**Company Name**

Croft

**CEO**

Heekyung Ryu, Uram Lee

**Key Product/Service**

CroftOS

**Industry**

Data Processing

**Technology**

- Computer Vision
- Data Analysis & Visualization
- Edge Computing
- Cloud & AI Infrastructure
- Robots & Autonomous Systems
- AI R&D
- Reinforcement Learning
- Machine Learning



[croft-ai.com](https://croft-ai.com)



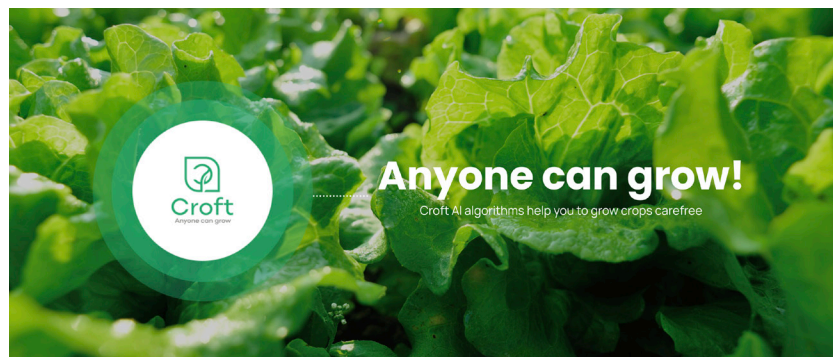
**"CroftOS":  
Transforming Agriculture  
with AI Technology**

The core technology of CroftOS is AI-driven optimization that improves greenhouse environments and crop yields while increasing resource efficiency. Crop Monitoring AI detects and analyzes plant growth in real time, while Cultivation Strategy AI determines the optimal growing conditions. Environmental Control AI then automatically adjusts greenhouse systems to maintain the ideal cultivation environment.

**Smart Agriculture Beyond  
Simple Monitoring**

CroftOS goes beyond existing monitoring systems by providing AI-driven real-time greenhouse control. Its advanced AI algorithms, designed for commercial greenhouse use, help maximize crop yields, minimize energy and resource consumption, and reduce operational costs.

Its AI algorithms provide expert-level greenhouse management so that even non-specialists can improve profitability with ease. It is currently being tested in research and pilot greenhouses. Performance validation is also underway in collaboration with sensor companies and agri-tech partners.



**Croft's Growth and  
Future Outlook**

Since its founding, Croft has participated in the Autonomous Greenhouse Challenge (AGC), where it developed an AI algorithm for leafy greens and won first place in the hackathon.

In 2024, the company formed a partnership with SAF Tehnika, the parent company of global sensor manufacturer Aranet, and is collaborating with agri-tech firms such as Vivent and COSMOS. Based on these achievements, it continues to refine its greenhouse control algorithms with the aim of replicating expert grower decision making.

In 2025, Croft will launch an AI-powered smart greenhouse project to validate its technology in commercial-scale production. It plans to modularize CroftOS as AI system software as a service (SaaS) to make advanced AI-driven agriculture easily accessible to farmers. Ultimately, it wants to become a global leader in smart agriculture and drive the adoption of sustainable farming solutions.

Image of Croft's Greenhouse Monitoring  
Equipment Installed  
(Source: Croft)



Secure Synthetic Data Generation  
with Meaning Preserved

**CUBIG**

CUBIG provides the "Data Transform System (DTS),"  
its secure synthetic data generation solution  
and "azoo," its comprehensive synthetic data platform.  
The company was founded in September 2021.

**Company Name**

CUBIG

**CEO**

Ho Bae, Minchan Jung

**Key Product/Service**

DTS

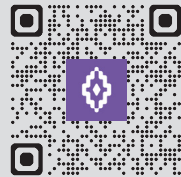
azoo

**Industry**

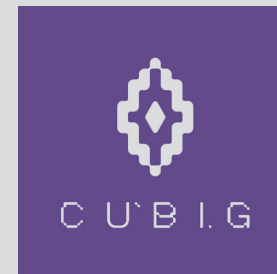
Data Processing

**Technology**

- Generative AI
- Security & Privacy
- AI Tools & Platforms
- AI R&D
- Synthetic Data



[cubig.ai](https://cubig.ai)



## "DTS," a Synthetic Data Transforming System and "azoo," a Comprehensive Solution for Synthetic Data

CUBIG's DTS is a secure synthetic data transformation solution that creates synthetic data that preserves privacy locally without the need to transfer original data to external servers, and maintains up to 99% similarity to the original dataset while completely excluding sensitive information. It is designed for ease of use and requires no coding or AI expertise to generate synthetic data. Currently, DTS has completed a PoC and initial contract with Naver Cloud. It is also conducting PoC projects with the Korean Air Force and SK Telecom.

The comprehensive synthetic data solution "azoo" includes SynFlow, a synthetic data-based integration service; azoo Data Market, a platform for synthetic data transactions; and DataXpert, an LLM-powered tool for synthetic data analysis. CUBIG is actively collaborating on data-related projects with LabGenomics, Welltizen, and Ewha Womans University Mokdong Hospital.

### Competitive Edge of CUBIG

CUBIG's synthetic data solution stands out from competitors due to its "non-access data technology." Unlike other synthetic data platforms that require users to share original data with the platform provider, DTS generates synthetic data locally without transferring original data. In addition, DTS produces synthetic data with up to 99% similarity to the original dataset while maintaining high diversity thanks to its advanced algorithmic performance.

The solution makes customized synthetic data generation possible in various industries, including finance, healthcare, defense, logistics, and transportation. It supports multiple data types, including time-series, text, and images. To generate ethical and unbiased synthetic data, the system incorporates prompt engineering technology to prevent bias in generated datasets.

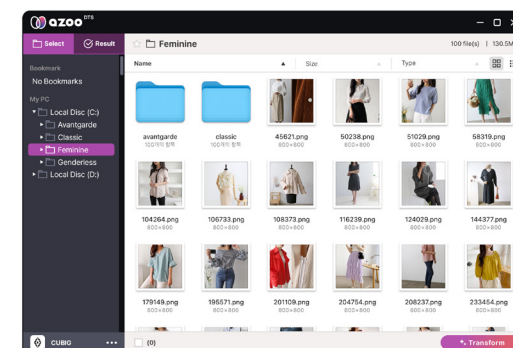
### CUBIG's Growth and Future Outlook

CUBIG secured seed funding from Naver D2SF and VNTG in 2023, and raised Pre-Series A funding from CNT Tech and the Korea Development Bank in July 2024. It was selected for the TIPS program in September 2023 and again in June 2024. CUBIG was chosen as a resident company of the Seoul AI Hub in December 2023.

The company is focused on demonstrating the value of its secure synthetic data solutions and building market awareness, credibility, and customer trust. Through PoC projects and strategic partnerships, it plans to become a key player in AI development that solves data silo problems while ensuring secure processing of sensitive information.

It is also expanding into global markets and positioning itself as a leader in the secure synthetic data industry. It is developing a web-based platform for data integration and analysis beyond data generation, and providing businesses with a comprehensive data management tool.

Image of CUBIG's Secure Synthetic Data Generation Solution "DTS"  
(Source: CUBIG)





End-to-End Support for 3D Model Data  
Planning and Supply

**HyperEZ**

HyperEZ specializes in 3D model creation and development using GeoAI.  
The company was founded in April 2023.

**Company Name**

HyperEZ

**CEO**

Sangseok Yoon, Yerim Yoon

**Key Product/Service**

Hyper EZ

PIE3D

Pinch3D

**Industry**

Data Processing

**Technology**

- Computer Vision
- AI Tools & Platforms
- AI R&D
- Visual Intelligence



hyperEZ.io



### HyperEZ Solution: Create and Sell 3D Models Using +80K Data Assets

HyperEZ's flagship solution, HyperEZ, offers a variety of professional services, including 3D modeling and design, spatial planning, extended reality (XR) content creation, and simulation development. With more than 80,000 3D data assets, HyperEZ has developed technology to assemble and generate 3D models.

The company also operates PIE3D, a 3D data marketplace, and Pinch3D, a web-based 3D design tool. PIE3D is a platform where users can buy and sell 3D data needed for AI training. It functions as a digital asset exchange that enables seamless file sharing.

Pinch3D provides custom 3D modeling services for businesses. Assets (3D content production models) purchased from PIE3D can be easily assembled and completed directly on the web. Many companies in the metaverse edtech sector use Pinch3D as a 3D design education tool.

### Competitive Edge of HyperEZ

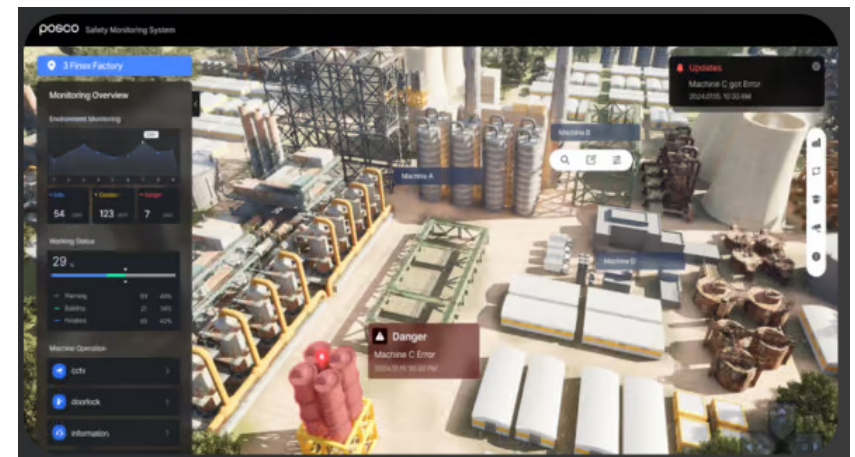
HyperEZ stands out for its ability to supply high-quality 3D data at a low cost while maintaining a vast repository of assets. With PIE3D, the company can rapidly produce and supply the large-scale 3D data needed for AI training. For entertainment and immersive media artwork, it helps reduce production resources. This is supported by more than 100,000 processed 3D data assets and its proprietary 3D design engine.

### HyperEZ's Growth and Future Outlook

HyperEZ is actively pushing the boundaries of 3D rendering technology by using its innovations to solve industry problems in multiple sectors. Its solutions are currently being used by major entertainment companies such as YG Entertainment for artist content production. IT firms such as POSCO DX use HyperEZ's solutions for 3D visualization. With a proven track record of delivering more than 40 successful 3D projects, HyperEZ has earned the trust of both startups and large enterprises.

The company is now expanding into VR content development. In September 2024, it introduced "Simdemy VR," an AI-powered veterinary clinical training solution. This VR-based veterinary anatomy education platform aims to overcome the limitations of existing textbooks and video materials. Looking ahead, it plans to expand its business into new areas by advancing its VR content production technology.

HyperEZ 3D Modeling Solution (Source: HyperEZ)



Optimizing Inventory Management with AI  
Demand Forecasting

**Impactive AI**

Impactive AI uses AI-driven predictive technology to help businesses forecast new product performance and demand to maximize profitability. The company, founded in July 2021, has achieved triple-digit annual revenue growth. The company is currently in its Pre-Series A funding round. It has secured KRW 2.6 billion in funding so far. In 2024, it was selected for the Deep Tech TIPS program.

**Company Name**

Impactive AI

**CEO**

Doohee Jung

**Key Product/Service**

Deep Flow

**Industry**

Data Processing

**Technology**

- Data Analysis & Visualization
- Cloud & AI Infrastructure
- AI R&D
- Machine Learning



[impactive-ai.com](https://impactive-ai.com)



## The Story of Impactive AI's Solution

The company operates Deep Flow, an AI-driven demand forecasting and inventory management solution. By applying vast datasets and advanced predictive models, Deep Flow accurately forecasts future sales, pricing, and demand trends, which helps businesses optimize inventory and production management. This feature improves operational efficiency by forecasting future sales so that businesses can optimize inventory and sales strategies.

The "Predictive New Product Launch" feature uses machine learning to forecast the success of a product before launch for strategic product releases. The "Predictive Sales and Portfolio Management" feature analyzes market trends to determine the optimal pricing strategy and helps businesses maximize profitability. Impactive AI helps companies enhance competitiveness, streamline operations, and boost profitability through data-driven decision making.

## Competitive Edge of Impactive AI

Impactive AI is strengthening product and service competitiveness by applying top-tier AI prediction accuracy on a global scale. The company provides versatile AI solutions applicable in various industries with a portfolio of more than 224 advanced machine learning (ML) models, including those recognized at international academic conferences. Impactive AI has filed 31 AI-related patents, submitted five patent applications in the United States and successfully registered three patents. With 600 million data points and more than 300 advanced predictive models, it is strengthening its technological competence. Deep Flow integrates not only customer enterprise resource planning (ERP) data but also crawls and collects data from more than 50,000 external environmental factors to realize high-precision predictive modeling with extensive data coverage.

## Impactive AI's Growth and Future Outlook

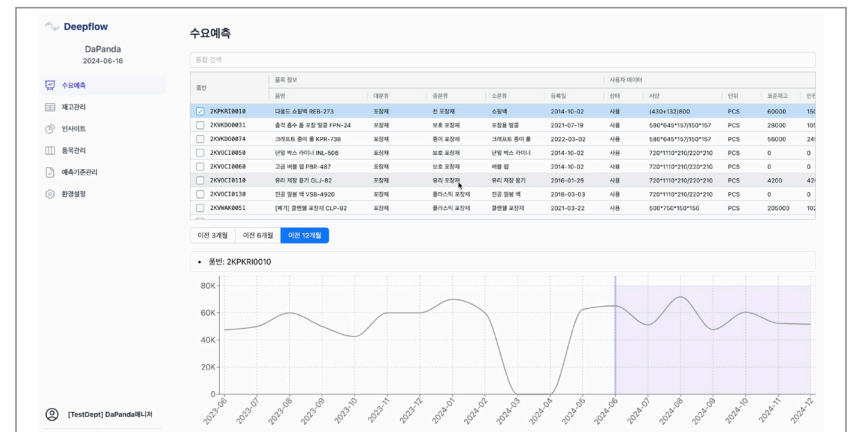
Impactive AI is rapidly growing and supplying solutions to a wide range of clients from large corporations to small- to mid-sized businesses.

While Impactive AI remains focused on demand forecasting, the company is expanding its applications in various industries. Currently, Impactive AI specializes in AI-driven inventory optimization, but it has already developed capabilities in raw material consumption forecasting, price prediction and ML-based dynamic pricing.

These advancements will enable the company to apply versatile predictive solutions to different sectors. As part of its expansion strategy, Impactive AI is introducing a pharmaceutical demand forecasting system to strengthen its presence in the healthcare industry.

The company will focus on R&D innovation to strengthen its leadership in demand forecasting and further widen its technological edge over the next five years. It is also expanding into 12 new markets globally to strengthen its international competitiveness.

Demand Forecasting Screen of the AI-Powered Solution "Deep Flow" (Source: Impactive AI)



## Creating an Efficient Digital Learning Environment

**MACHUDA**

MACHUDA is a developer and provider of a service that enables certification students and civil service exam candidates to solve past exam questions using digital devices.

To create the most efficient learning environment, the company is making technological attempts to fully digitalize the learning process.

MACHUDA, founded in 2022, has raised KRW 150 million in seed investment and was selected for Tech Incubator Program for Startups (TIPS) and attracted KRW 700 million in funding.

### Company Name

MACHUDA

### CEO

Yoongyu Lee

### Key Product/Service

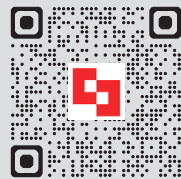
MACHUDA

### Industry

Data Processing

### Technology

- Generative AI
- Data Analysis & Visualization
- AI Tools & Platforms
- Machine Learning



[machuda.kr](https://machuda.kr)



## The Story of MACHUDA's Solution

MACHUDA is a digital exam prep service that goes beyond previous e-books by offering automatic grading and generating personalized incorrect answer notes as users solve questions.

It analyzes learning data to identify weak areas and provides customized study recommendations based on the user's proficiency level. This allows learners to accurately assess their progress and focus only on what they need and makes their study sessions more efficient. Currently, the service is available for 55 subjects, primarily for national technical certification exams.

## Competitive Edge of MACHUDA

MACHUDA has developed an automation technology that reads and breaks down the learning content of publishers to store them in databases. This reduces resource consumption by 99% compared to manual typing by publishers.

MACHUDA is designed for seamless scalability. It features modular development and an automated expansion system so that new subjects can be added in just one day. Its business model is built on collaboration with traditional players, which are publishers, to foster faster expansion. Thanks to this technology, MACHUDA expanded into more than 40 new subjects in 2023 alone.

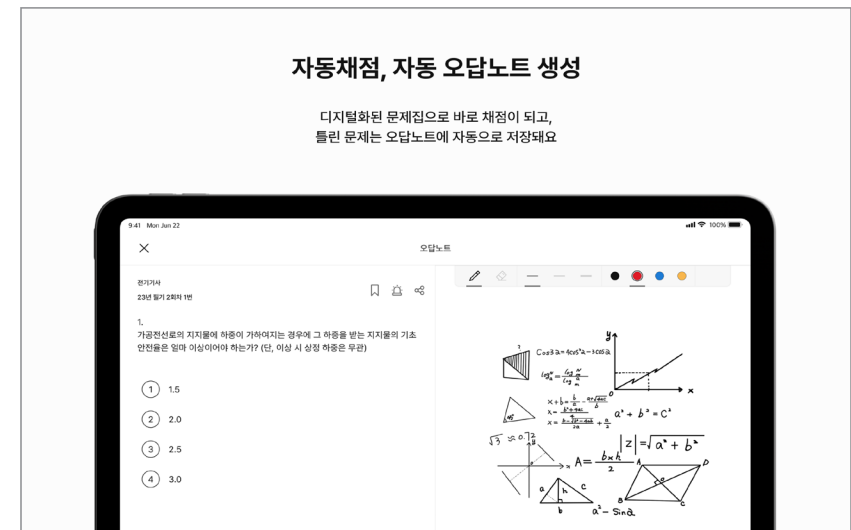
## MACHUDA's Growth and Future Outlook

MACHUDA now has a total of 360,000 users and 80,000 active monthly users. Each week, more than 1 million questions are solved on the platform, and approximately 50,000 mock exams have been taken to date.

Using its expertise in mock exam systems, MACHUDA recently launched Tesfit, a B2B and B2G solution that helps companies digitize their internal exams. In 2024, MACHUDA successfully implemented its mock exam system for the recruitment processes of IBK Industrial Bank of Korea and LH Korea Land and Housing Corporation.

In the future, MACHUDA intends to develop the most efficient learning experience in the rapidly evolving digital education market. Its ultimate goal is to revolutionize not only the adult education market, but the entire education industry.

Intro Image of "MACHUDA," Practice with Questions from Past Exams (Source: MACHUDA)



Platform for Optimized Moving and  
Freight Transport Using AI Algorithms

**OnITKOREA**

OnITKOREA operates ZIMLALA, a specialized moving and freight transport service.

The company was founded in May 2020.

It has raised a total of KRW 600 million in funding, including Pre-Series A funding.

**Company Name**

OnITKOREA

**CEO**

Seungbum Jung

**Key Product/Service**

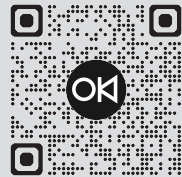
ZIMLALA

**Industry**

Data Processing

**Technology**

- AI Tools & Platforms
- Reinforcement Learning



[zimlala.com](http://zimlala.com)



**"ZIMLALA":  
Moving and Freight  
Transport Optimization  
Using AI Algorithms**

ZIMLALA is a platform that optimizes the moving and freight transport process using AI algorithms. The system calculates cargo volume and load efficiency, and recommends the most suitable vehicle.

To minimize transportation costs, it reduces empty return trips and optimizes delivery routes based on cargo pickup and drop-off schedules. It offers differentiated transportation services based on customer and cargo types, including young professionals, expectant mothers and newborns, and pet owners.

**Big Data-Driven  
Customized Dispatch and  
Driver Management**

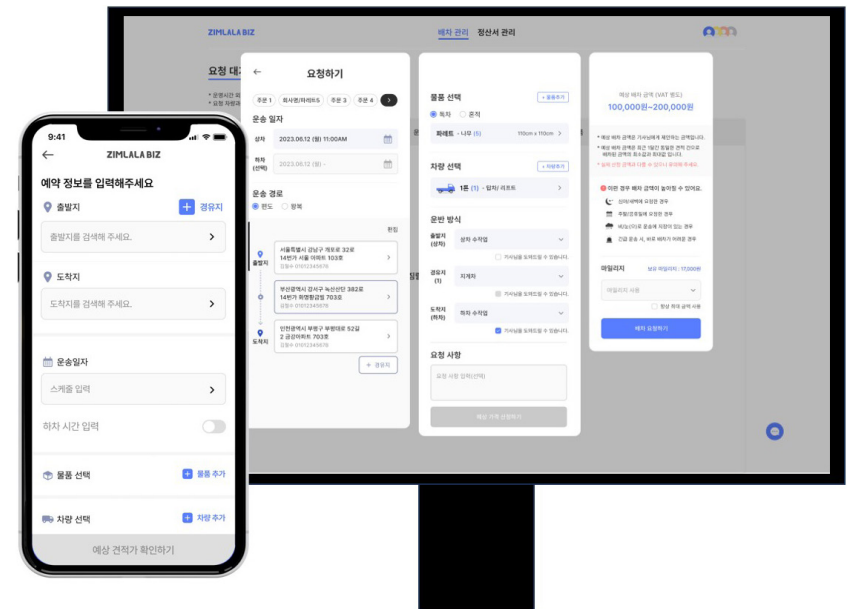
ZIMLALA improves freight vehicle and driver management with advanced data-driven technology for AI-powered customized dispatch that reduces transportation costs. Vehicles are assigned based on cargo type, whether parcel delivery, scheduled shipments, or small freight, to optimize both cost and time. For express deliveries, the system dispatches smaller vehicles such as Damas vans and motorcycles for rapid transport.

OnITKOREA's route and driver recommendation algorithm is also used in the enterprise freight market through its "ZIMLALA BIZ" service. This platform, launched in beta in October 2023, is expanding its market presence by partnering with existing logistics providers and freight transport businesses.

**OnITKOREA's Growth and  
Future Outlook**

OnITKOREA is refining its current services to increase its market share in South Korea. The company plans to expand service coverage by developing an automated system for multi-route dispatching, driver satisfaction management, and payment processing. Its long-term goal is to broaden its reach into new sectors, including wholesale and retail, product brokerage, and partnerships with home appliance and furniture manufacturers.

Image of OnITKOREA's "ZIMLALA BIZ" Service  
(Source: OnITKOREA)





Lowering the Barriers to  
3D Animation Production

**Plask**

With AI, complex animation work can now be done effortlessly with only a webcam and a browser.

Plask has developed an AI-based motion capture tool for 3D animation.

The company was founded in February 2020.

It has secured KRW 4.2 billion in funding to date.

**Company Name**

Plask

**CEO**

Junho Lee

**Key Product/Service**

PLASK

**Industry**

Data Processing

**Technology**

- Generative AI
- AI Tools & Platforms
- Machine Learning



plask.ai



**"Plask":  
AI-Powered Animation  
Without Equipment  
or Studios**

Plask, developed by Plask, is an AI-driven 3D content creation tool that automatically generates 3D animation data using motion capture technology. Users can record, edit, and animate characters without leaving the browser by simply filming movements with a camera, and the AI detects actions in the video and seamlessly transforms them into animations.

With Plask, projects can be shared, reviewed, and collaborated on directly in the browser. Multiple users can edit simultaneously in real time, and AI automates rigging, modeling, and rendering to streamline the entire 3D scene creation process.

**Faster and More  
Affordable AI-Driven  
3D Content Creation**

The key advantage of Plask is that it enables animation production without expensive motion capture equipment or a studio. AI converts real-world movements taken with a standard camera into skeletal movement to use for animation.

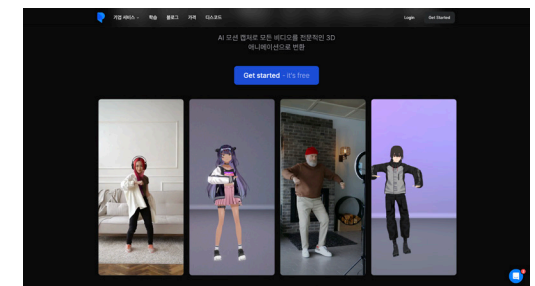
Since it quickly transforms live action into animation, Plask is very useful in industries such as gaming and film.

Current motion capture is time-consuming and costly, but Plask streamlines the early stages of production to help creators sketch concepts and define compositions before full-scale development.

**Plask's Growth and  
Future Outlook**

After its founding, Plask secured KRW 30 billion in Pre-Series A funding from investors such as Naver and KT in 2021. In 2023, the company launched "Plask Generative AI," an AI image generation tool based on Stable Diffusion. It surpassed 20,000 users within four days. Plask plans to develop a pre-visualization tool as system software as a service (SaaS) to improve real-time collaboration on the web.

Image of "Plask," an AI-Powered 3D Content Creation Platform  
(Source: Plask)



AI-Powered Forecasting for  
Crop Yields and Prices

## SNE Company

SNE Company operates "B-good," a B2B agricultural trading platform  
powered by AI-driven price forecasting.  
The company was founded in August 2020.  
The company has raised KRW 3 billion in funding so far.

**Company Name**

SNE Company

**CEO**

Sehun Chang

**Key Product/Service**

B-good

**Industry**

Data Processing

**Technology**

- Computer Vision
- Data Analysis & Visualization
- AI R&D
- Reinforcement Learning
- Machine Learning



[bgood.co.kr](http://bgood.co.kr)



## "B-good": AI-driven B2B Fresh Produce Trading Platform

B-good is a platform that facilitates forward contracts between farmers and food processing companies. In forward contracting, agreements are made in advance and the actual delivery takes place later, which requires accurate price forecasting to maximize profits.

To achieve this, B-good has developed an AI system capable of collecting, preprocessing, and analyzing even unstructured data, such as crop growth images and satellite imagery, for very accurate price predictions. The company also runs a distribution service that places orders with farms after signing contracts and directly delivers harvested products.

## Predicting and Trading Non-Grade Produce with AI

B-good uses big data and AI to predict the entire agricultural cycle from crop growth and yield to pricing and demand. This system is particularly beneficial for trading "non-grade produce," fruits and vegetables that do not meet standard size or shape specifications, by helping buyers secure the right quantity and quality.

In the past, B2B buyers who operate on fixed budgets have struggled to secure advance orders due to the high price volatility of agricultural auctions. As a result, transactions were typically conducted through contract farming, where buyers purchase the entire harvest.

By applying its technology, B-Good is transforming the distribution paradigm with an innovative system that shifts from the current pre-purchase model to a pre-order-based supply chain. Its AI-driven yield and price prediction system allows buyers to specify the exact quality and quantity they need, even for non-grade produce. With its direct delivery logistics, B-good minimizes distribution costs while maximizing profits for both farmers and businesses.

## SNE Company's Growth and Future Outlook

Since its launch in 2021, B-good has facilitated transactions for 3,000 tons of non-grade produce. The platform now serves more than 600 businesses. To meet the growing demand, SNE Company has established a network of 17,000 farms and local suppliers. This represents 2% of all farms in South Korea. The company aims to further increase revenue and profitability with plans to achieve profitability by 2025. It is currently in the process of securing KRW 23 billion in Pre-Series B funding.

It is also planning to expand into overseas markets. The establishment of local subsidiaries in countries such as Canada and Vietnam are currently in progress to provide data-driven optimal crop recommendation solutions to respond to climate change in the future. Based on its strong network of domestic farms and food processing companies, it also hopes to expand its agro export business.

Mobile App Interface of "B-good," an AI-Powered Price Prediction Platform for B2B Fresh Produce Trading  
(Source: SNE Company)



Secure On-Device MyData Storage  
Platform

**SNPLab**

SNPLab provides "my:D," an on-device-MyData transaction platform.  
The company, founded in December 2019, has secured KRW 2.83 billion in funding to date.

**Company Name**

SNPLab

**CEO**

Jaeyoung Lee

**Key Product/Service**

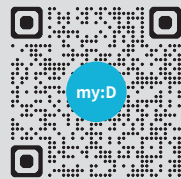
my:D

**Industry**

Data Processing

**Technology**

• Security & Privacy



snplab.io

**SNPLAB**

Security & Privacy Laboratory

## "my:D": An On-Device Personal Data Marketplace

MyData refers to the concept that individuals, rather than companies or platforms, should have control over their personal information. The goal of the MyData industry is to allow individuals to share their personal data with third parties based on their own decisions.

SNPLab's my:D platform is a personal data marketplace designed for collecting and managing personal data, as well as for using and rewarding that data. At its core is on-device MyData storage technology, so that individuals can securely store and access their data without privacy concerns. For businesses, my:D gives real-time access to cross-industry MyData while remaining fully compliant with data regulations.

Users and businesses can pre-establish data usage agreements, and companies can only access approved personal data. Additionally, SNPLab offers "ODM Pass," a platform service that allows non-certified MyData companies and organizations without dedicated platforms to seamlessly provide their own MyData services.

## Securely Turning Personal Data on Your Device into Assets

In general, collected personal data can only be used for specific purposes, which limits its potential for cross-industry data integration and added value. SNPLab overcomes this limitation with an on-device model for the secure fusion of data in various industries to increase the value of MyData and turn it into an asset.

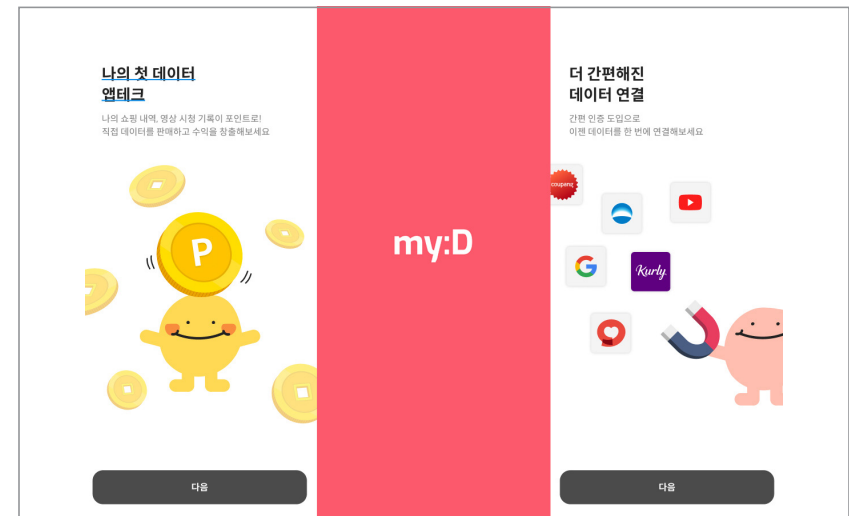
Unlike conventional systems that rely on third-party institutions, data processing and integration occur directly on the user's device for strong security. This device-level security minimizes risks associated with personal data usage.

## SNPLab's Growth and Future Outlook

The my:D app has reached 230,000 cumulative users as of 2023. SNPLab has also secured more than KRW 4 billion in government projects by supplying solutions such as "GyeonggiTok-D," a solitary death prevention alarm system for Gyeonggi Province, and "MoveON," a MyData-based relocation service for the Seoul Metropolitan Government. SNPLab is expanding globally and has established a local subsidiary in Japan and is preparing to enter Canada and Finland.

The company will introduce new features for my:D, including a step counter and transaction history integration with Bithumb, while also expanding its service model by offering data analytics solutions and voice call services (VoIP) to support targeted telemarketing.

Mobile App Interface of MyData Trading Platform, "my:D"  
(Source: SNPLab)



Assistance for Software Development  
and Planning

**Tryfifty**

Tryfifty is a company that develops software and provides planning software  
as a service (SaaS) solutions based on AI and large language models (LLM).

The company was founded in October 2022.

**Company Name**

Tryfifty

**CEO**

Hyunwoo Lee

**Key Product/Service**

Macdal

LaunchBound

**Industry**

Data Processing

**Technology**

• Generative AI



[tryfifty.com](https://tryfifty.com)

# Tryfifty

## "Macdal" and "LaunchBound," Assisting Software Development and Planning

Tryfifty's flagship solutions include Macdal, an AI-powered assistant for software development teams, and LaunchBound, a software planning service driven by large language models (LLM).

Macdal is an AI-powered integrated search and collaboration platform designed for software development teams. It offers unified search in connected tools through chat and search bar formats, and by integrating Macdal into various LLM-based AI services, it can provide context on behalf of users. It also enables users to generate desired documents by applying Macdal's knowledge of internal team information.

LaunchBound is a service tailored for software planners that assists in refining, organizing, and improving user ideas while helping to establish an architectural software plan that can be implemented to enable development or design. Tryfifty also offers a Figma plugin called "Annote" designed for software designers.

## Integrated Design Services with LLM-Based Data Analysis and Knowledge Graph

Macdal provides enterprise AI solutions similar to its competitors, but distinguishes itself by specifically targeting software development teams to offer specialized resources and automated workflows tailored to developers.

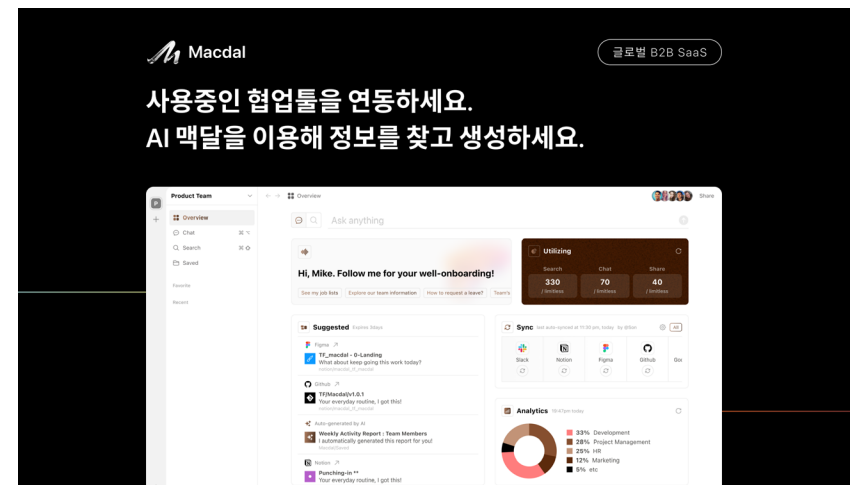
It also strengthens its competitive edge with LLM-based data analysis and knowledge graph technology. With this foundation, Macdal provides a seamless software design experience, and offers unified search, contextual assistance, and automated document generation.

## Tryfifty's Growth and Future Outlook

Tryfifty plans to launch the Macdal service in November 2024. Following the release, the company will gather user feedback and secure seed investment by 2025. The company is preparing to establish a local subsidiary in Canada for its global expansion.

At the same time, Tryfifty is developing technology to build retrieval-augmented generation (RAG) at the production level. This technology is designed to equip LLM models with long-term memory capabilities. By integrating with the software tools commonly used by development teams, it aggregates and analyzes scattered information and allows users to efficiently search for relevant data, gain deeper insights, and streamline software design and development.

Image of "Macdal" Service, Your AI-Powered Software Development Assistant (Source: Tryfifty)





Finding Images of Your Favorite Idol  
Singer's Specific Outfits and Performances

**Vibezone**

Vibezone operates Vibrary, a K-pop content archive platform  
powered by an AI-based data collection system.  
The company was founded in November 2020.  
It has raised KRW 2.6 billion in Pre-Series A funding so far.

**Company Name**

Vibezone

**CEO**

Sangbum Park

**Key Product/Service**

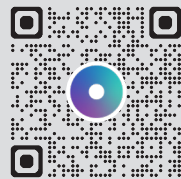
Vibrary

**Industry**

Data Processing

**Technology**

• Computer Vision



vibezone.kr

**vibezone**

## "Vibrary": AI-Based Artist Image Archive Platform

Vibrary is a platform that helps fans find the K-pop artist images they are looking for. It offers a personalized recommendation system by applying meta-image tagging to K-pop content created by fans. It also features AI-powered image analysis, enabling automatic tagging of user-generated content. With Vibrary's search engine, K-pop fans can easily find images of their favorite artists based on specific outfits, appearance dates, performances, and more.

Another key area of the Vibrary business is digital merchandise. It creates digital LPs, content cards, and other digital goods by using content uploaded by intellectual property (IP) holders such as entertainment agencies. By tagging these goods equipped with near-field communication (NFC) technology, fans can access music, images, and video content from their favorite artists.

## Fandom-Generated Content on Samsung Smart TV

With a massive dataset of more than 500,000 K-pop fandom-generated images, Vibrary provides personalized content to fans. Its AI-powered image analysis automatically tags user-uploaded content, which makes content search even more efficient. Vibrary comes pre-installed as a default app starting with Samsung Smart TV models in 2024, and integrates seamlessly with smart TVs, speakers, and other home entertainment devices.

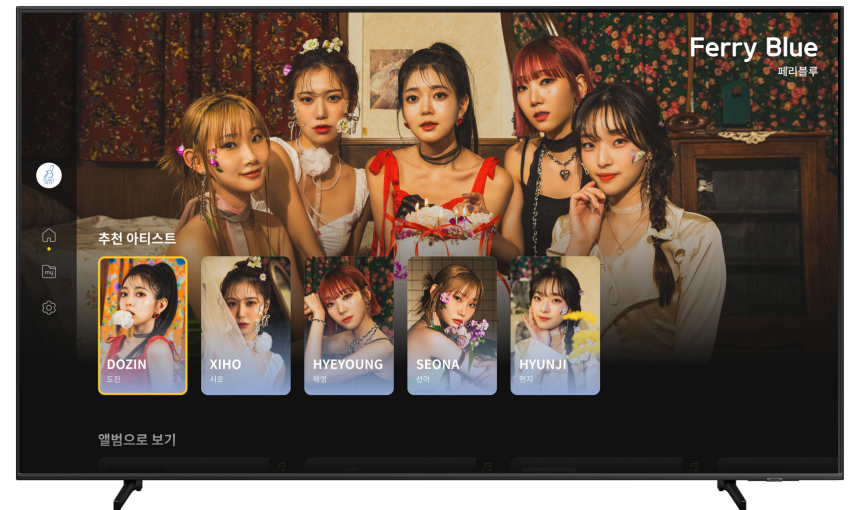
Both rising K-pop idols and J-pop artists are now on Vibrary sharing exclusive content with their fans. Artists such as trot singer Minho Jang and idol group Ferry Blue have used Vibrary's digital goods to host special fan events. Some Japanese artists have even produced Vibrary digital merchandise to sell directly at their concerts.

## Vibezone's Growth and Future Outlook

Vibezone has established a strong global presence with 1.5 million subscribers, 90% of whom are international users. As of 2024, it has secured contracts with one Korean IP agency and two Japanese IP agencies. It plans to enter new target markets and broaden its IP categories to include actors, models, and sports stars.

The company is also working on expanding its target audience. It is currently gearing up for the launch of Vibrary's mobile service 2.0. While service 1.0 was primarily driven by certain influencers who created content for fans, service 2.0 will diversify the range of content and place a stronger focus on interaction so that even casual fans can engage more easily.

Image of "Vibrary," a K-Pop Content Archive Platform (Source: Vibezone)



Simplified and Optimized Job Matching  
with a Single Click

**WorksBe**

WorksBe operates "TheBulja," a short-term job matching platform  
powered by its AI-driven Optimum Block Combination (OBC).  
The company was founded in January 2019.  
It has raised KRW 1.8 billion in funding to date.

**Company Name**

WorksBe

**CEO**

Hyunho Kim

**Key Product/Service**

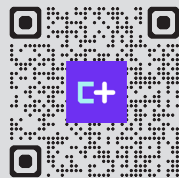
TheBulja

**Industry**

Data Processing

**Technology**

- Data Analysis & Visualization
- AI Tools & Platforms
- Reinforcement Learning
- Machine Learning



[worksbe.com](https://worksbe.com)

***WorksBe.***

## "TheBulja": From Job Matching to Payroll and HR Management

A key feature of TheBulja, operated by WorksBe, is its Job Navigation system. Much like a GPS for job seekers, this AI-powered solution helps part-time workers find the right job schedules to earn their desired income with a single click.

By resolving mismatched conditions through sequential segmentation and recombination, the system helps job seekers and employers find the right match based on job preferences and salary expectations. Job seekers can find multiple job opportunities in two or three nearby locations that meet their income goals. Employers can hire efficiently within a reasonable labor budget. By eliminating the need for manual job searching, Job Navigation streamlines the entire process and provides optimal matches based on availability, location, and income goals.

The platform also provides comprehensive post-matching support. The Schedule Management Resource Planner (SMRP) solution offers automated attendance tracking, payroll forecasting and processing, and automatic calculation of various allowances for part-timers. It optimizes work schedules with a single click, and streamlines workforce allocation.

### Job Navigation: Finding the Best Path to the Right Job and Workers

At the core of WorksBe's technology is its AI-powered matching engine called Optimum Block Combination (OBC). OBC identifies and combines all opportunities that enable users to achieve their desired goals (e.g., quantity and amount) and provides personalized optimal matching results based on predicted individual preferences.

Other job matching services generate overwhelming amounts regardless of their validity and lack a feature to precisely match job seekers with employers. WorksBe's AI-OBC-based matching engine optimizes job placement by segmenting and combining infor-

### WorksBe's Growth and Future Outlook

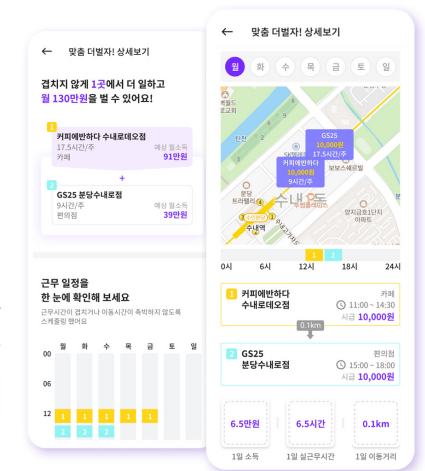
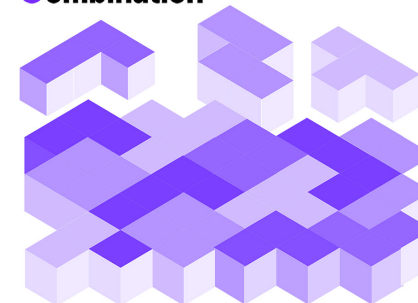
mation based on schedules and locations to meet ideal job conditions. It reduces user search time by 99% compared to other platforms while increasing the rate of successful job-condition matches by more than tenfold. The SMRP solution increases workforce flexibility so that businesses can efficiently handle sudden staffing gaps.

The TheBulja platform currently has 300,000 users and 20,000 registered businesses. The SMRP solution has been fully developed and is set for release in 2024. It will be offered as an HR solution for small businesses, franchises, and employers hiring part-time workers to streamline staff management and payroll processing.

Image of WorksBe's Job Matching Platform "TheBulja" (Source: WorksBe)

### DESIGN YOUR CHANCE

## Optimum Block Combination



# ARTIFICIAL GENERAL INTELLIGENCE



## AI Startups from Seoul AI Hub

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3R Innovation	NationA
acrossB	NetLOX
AMSquare	Piloto
Bobidi	PinotLab
Catchflow	Teddysum
Groundone	Tilda
injewelme	Toonsquare
Jupiter Labs	TwoWhy
Kaier	VAIV AI
MOVIC Lab	

AI-Powered Attention and Mental Health  
Care for Youth

## 3R Innovation

3R Innovation provides AI-driven digital phenotyping solutions to support mental health and attention management for youth.

The company's flagship services include "Dr. Simon," a platform that monitors and supports adolescents' psychological and mental well-being and "Focuspang," a tool that assists teachers and instructors in managing their classes.

The company was founded in September 2021.

### Company Name

3R Innovation

### CEO

Gwangsoo Cho, Changgeon Lee

### Key Product/Service

Dr. Simon

Focuspang

### Industry

Artificial General Intelligence

### Technology

- Computer Vision
- Generative AI
- Data Analysis & Visualization
- Edge Computing
- Cloud & AI Infrastructure
- AI Tools & Platforms
- Machine Learning



[focuspang.ai](https://focuspang.ai)



**"Dr. Simon," which analyzes mental and psychological health through smartphone usage, and "Focuspang," which assists teachers and instructors in managing their classes**

3R Innovation's core technology focuses on digital phenotyping. This AI-based technology analyzes emotional and mental health patterns through daily interactions with devices such as smartphones. By tracking touch behavior, typing patterns, and eye movements, the system converts user behaviors into data for the early detection of attention issues, ADHD, depression, and addiction.

Dr. Simon uses digital log data from smart device usage to monitor concentration levels, learning habits, and mental health in adolescents and provide personalized care solutions. Focuspang is an offline classroom management tool designed for teachers and instructors working with adolescents. It improves student supervision with screen sharing between teachers and students. Additionally, it boosts engagement with interactive quiz programs.

**AI Digital Phenotyping: Continuous Mental Health Monitoring**

Conventional mental health assessments usually depend on self-reported questionnaires. This method is prone to false responses or dishonesty from users. 3R Innovation's digital phenotyping technology addresses these limitations by allowing objective, real-time mental health monitoring without social stigma, requiring hospital visits, or constraints of time and location.

Dr. Simon is equipped with this technology and uses sensor data from smart devices to continuously monitor adolescent mental health in a non-intrusive and natural way. Compared to current questionnaires, Dr. Simon makes objective assessments possible and significantly improves diagnostic accuracy. In April 2024, 3R Innovation developed the world's first AI model to diagnose internet gaming addiction.

**3R Innovation's Growth and Future Outlook**

Focuspang, 3R Innovation's offline classroom support solution, has been implemented in all middle and high schools in Seoul as of October 2024. In the future, services will also be launched for parents in addition to teachers. The company is also developing a university-focused service starting with Seoul National University.

Focuspang's global service will launch by the end of 2024, and there are plans to introduce the platform to students in Singapore in collaboration with Nanyang Technological University (NTU) and the National Institute of Education (NIE). 3R Innovation will also launch a youth mental health service in Singapore at the request of Singapore's Ministry of Health. With these initiatives, 3R Innovation aims to establish itself as a leading global platform dedicated to improving the well-being of youth worldwide.

Monitoring Screen of 3R Innovation's "Dr. Simon" (Source: 3R Innovation)



Global E-Commerce  
Logistics Solutions

**acrossB**

acrossB specializes in cross-border logistics and supply chain management  
with deep learning-based data analytics.

The company, founded in May 2020, has secured KRW 3 billion in funding.

**Company Name**

acrossB

**CEO**

Seongwoo Lee

**Key Product/Service**

Workpad

**Industry**

Artificial General Intelligence

**Technology**

• Machine Learning



[acrossb.net](https://acrossb.net)





## "WorkPad": Integrated Logistics and Delivery Process Management Service

acrossB provides comprehensive logistics services for global e-commerce, and offers not only shipping solutions but full-cycle supply chain management. Its logistics management platform, Workpad, helps businesses integrate multiple stores, manage orders, centralize inventory tracking, and automate routine logistics.

Workpad features a very readable dashboard that allows logistics teams to monitor daily order and shipment status by country and store at a glance, and quickly process orders and shipments with only a few clicks. Its dashboard provides real-time insights into key logistics metrics, including sales performance by channel and product as well as shipping lead times.

Within the platform, businesses can manage orders, products, and inventory in marketplaces, direct-to-consumer (DTC) stores, and international fulfillment centers, while also integrating with global shipping carriers for optimal delivery options.

## A Unique Global eCommerce Logistics Service

acrossB provides seamless cross-border logistics by integrating multiple sales channels and global regions. It supports major channels including Amazon, Shopify, Rakuten, TikTok, Qoo10 JP, Shopee, and Lazada, for all linked services

It has established a global fulfillment network in regions such as South Korea, the United States, Japan, China, and Canada, and is collaborating with major carriers such as UPS, DHL, FedEx, USPS, Yamato, and SF Express. acrossB Fulfillment Centers integrate with order management system (OMS) and warehouse management system (WMS) for one-stop logistics management covering order, inventory and return processing.

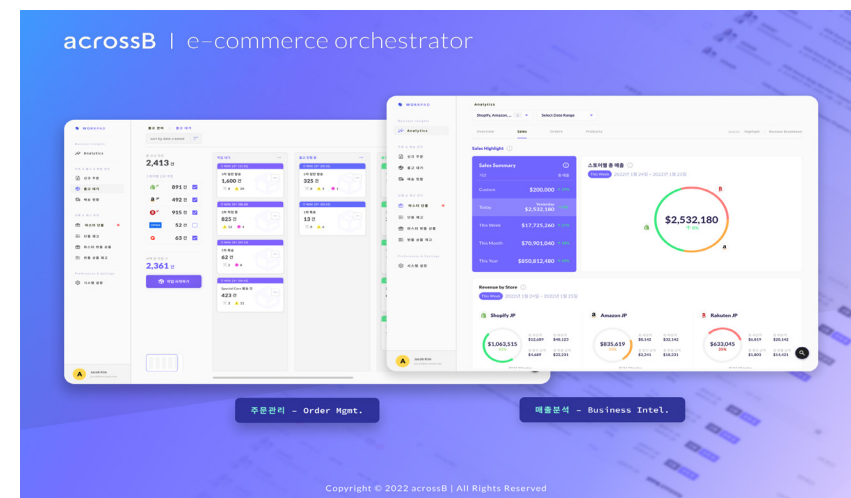
## acrossB's Growth and Future Outlook

Currently, more than 40 cross-border e-commerce companies use acrossB's Workpad, which including Amorepacific, LG Household and Health Care, Shinsegae International, and Beauty of Joseon.

acrossB was selected for "Global TIPS," a Ministry of SMEs and Startups international expansion program for high-potential tech startups, in October 2024. Global TIPS provides up to KRW 600 million in overseas expansion funding to startups that have secured at least 200,000 dollars (approximately KRW 300 million) from international venture capital firms.

acrossB plans to expand its global e-commerce service offerings by increasing store and carrier integrations, as well as improving connections and expanded integrations with global fulfillment centers. It is also developing a machine learning-powered promotion simulation system.

Screen of "WorkPad," an Integrated Logistics Management Platform  
(Source: acrossB)



AI Model Performance Management with  
Real-Time Monitoring

**AMSquare**

AMSquare is a developer of real-time monitoring solutions that help businesses maintain and optimize AI model performance.

The company was founded in March 2019.

**Company Name**

AMSquare

**CEO**

Hyungju Hwang

**Key Product/Service**

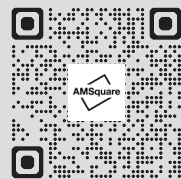
ML Performance Management Solution

**Industry**

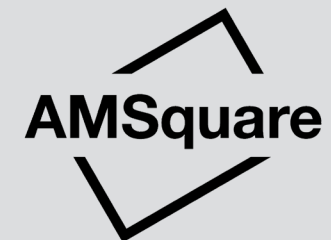
Artificial General Intelligence

**Technology**

- Computer Vision
- Data Analysis & Visualization
- AI R&D
- Reinforcement Learning
- Machine Learning



[amsquare.ai](https://amsquare.ai)



**"ML Performance Management Solution":  
Diagnosing and Resolving Performance Degradation of AI Models**

AI model performance naturally declines over time due to changes in data distribution. This can result from changes in operating environments, new product lines, or other factors, and each of these requires a different solution. AMSquare's Machine Learning (ML) Performance Management Solution provides real-time monitoring to analyze AI model health and detect pipeline anomalies, and recommends tailored solutions for each issue.

By continuously assessing model pipeline integrity, the system identifies where failures occur. When data drift or model drift occurs, it alerts users early for proactive interventions.

**Affordable and  
User-Friendly MLOps  
Solution for  
Non-Data Experts**

Existing MLOps solutions from big tech companies are often expensive and require extensive prior knowledge. By contrast, AMSquare's solution is compact, and contains only the features needed for AI model maintenance. It has a user-friendly interface that even non-data experts can easily use.

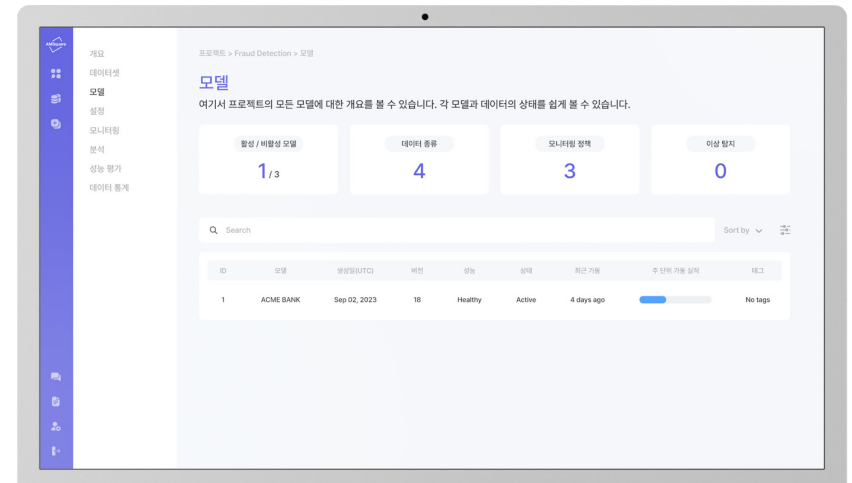
**AMSquare's Growth and  
Future Outlook**

AMSquare plans to extend its AI model performance management solutions to AI for IT Operations (AIOps) so that various industries can maintain and optimize AI systems efficiently.

Rather than focusing solely on short-term performance improvements, it aims to provide continuous monitoring by addressing problems such as data drift and model drift to ensure long-term AI reliability and support enterprise-level AI innovation.

First, AMSquare will introduce automated issue detection and response features. It is developing a platform that will monitor infrastructure changes and performance degradation in real time and automatically detect and respond to anomalies to reduce the risk of unexpected failures. Its AI model performance prediction algorithms will also be upgraded so that businesses can identify and address potential performance declines before they occur.

Image of AMSquare's "ML Performance Management Solution"  
(Source: AMSquare)



Company-Customized Employee Training  
Platform with AI and Machine Learning

**Bobidi**

Bobidi operates "SuperTalents AI," an AI-driven personalized  
employee training platform for businesses.  
The company was founded in June 2021.  
It has secured KRW 7.3 billion in funding to date.

**Company Name**

Bobidi

**CEO**

Jungseo Choi

**Key Product/Service**

SuperTalents AI

**Industry**

Artificial General Intelligence

**Technology**

- NLP
- Generative AI



supertalents.ai

**Bobidi**

## "SuperTalents AI": Improving Workforce Training with AI

SuperTalents AI uses AI and machine learning to provide personalized learning experiences. It streamlines workforce training efficiency in service industries such as hotels and restaurants.

It integrates advanced natural language processing (NLP) to generate and analyze quiz content, and uses data analytics to track employee performance and engagement. Its AI-driven adaptive learning system adjusts content in real time based on individual progress, improving training effectiveness through real-time analytics. Additionally, cloud computing technology has scalability and security, allowing multiple organizations to use the platform simultaneously.

## Streamlining Employee Training with Customized Corporate Training and Personalized Quizzes

SuperTalents AI stands out for its AI-driven personalized learning and intuitive user experience. Unlike existing training platforms, it analyzes employees' learning patterns and provides personalized quizzes and feedback to maximize training effectiveness. The AI-generated custom quizzes help streamline employee training.

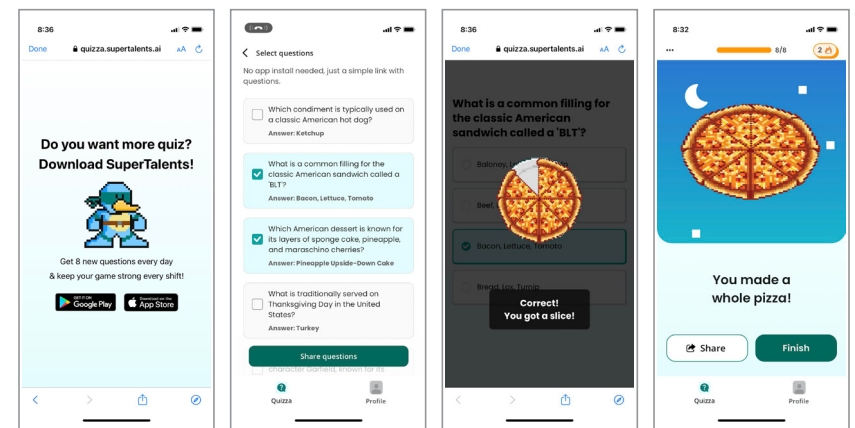
SuperTalents AI offers industry-specific content and customization options for businesses to tailor training programs to their specific needs. With simple implementation and minimal setup, the platform reduces tech fatigue and improves accessibility.

## Bobidi's Growth and Future Outlook

Bobidi is currently conducting paid PoC projects with eight companies in the United States. The company aims to expand into markets outside the United States and offer localized training content.

Bobidi plans to broaden its customer base in the service industry while also diversifying into other sectors that require customer management, revenue growth strategies, and team collaboration solutions. With a vision to build a comprehensive AI training ecosystem, it hopes to become the go-to platform for front-line workforce training in all industries.

Image of "SuperTalents AI," Bobidi's AI-Driven Personalized Employee Training Platform (Source: Bobidi)



Democratization of  
Directional Sound Solution

**Catchflow**

Catchflow has developed an ultra directional sound solution that provides sound and information precisely to specific areas only. The company founded in June 2018, has attracted investments from Samsung Venture Investment, Hyundai Motor's ZER01NE and CNTTech.

**Company Name**

Catchflow

**CEO**

Taeyoung Kim

**Key Product/Service**

SRAY-S

SRAY-D

**Industry**

Artificial General Intelligence

**Technology**

• Security & Privacy



[catchflow.co.kr](http://catchflow.co.kr)



## The Story of Catchflow's Solution

Catchflow develops directional sound solutions that provide audio and information to specific areas only. Its ultra-directional speakers focus sound in a single direction so that it reaches only the intended location.

By transmitting audio with 40 kHz ultrasonic waves, the sound remains inaudible until it reflects off an object or a person, which makes it perceptible by a user. This technology effectively controls sound dispersion and reduces noise levels by more than 20 decibels (dB). Its user recognition sensors and cameras increase the functionality of directional speakers by detecting user posture and context awareness.

## Competitive Edge of Catchflow

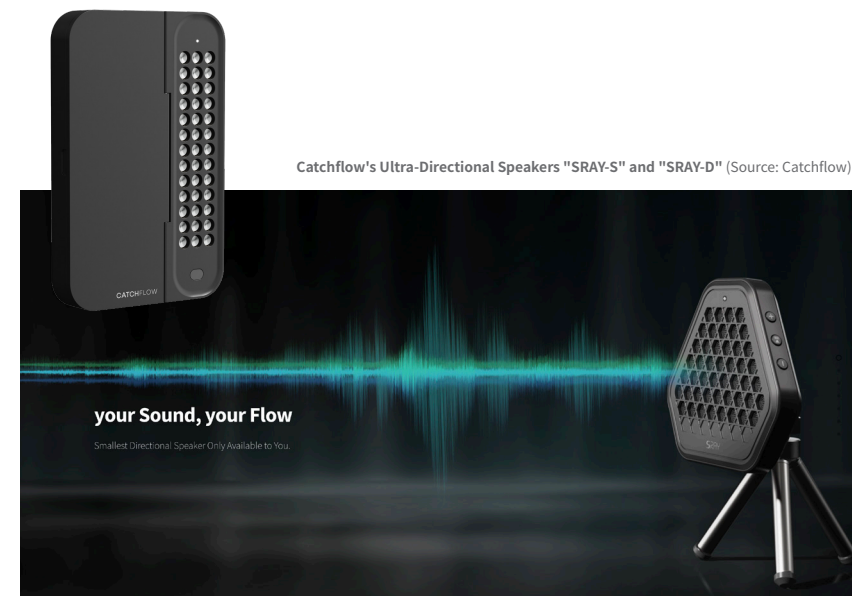
Catchflow's ultra-directional speakers boast a compact design that enhances usability and cost efficiency, giving them a competitive edge in the market. With the optimized design, the speakers show low power consumption, long product lifespan, and high stability. They also eliminate the need for additional amplifier (AMP) modules, and their versatile mounting system makes them easy to install in various environments.

A key advantage of Catchflow's speakers is their versatility. They are available in both all-in-one and modular formats and can be customized for general consumers, digital signage, and kiosks. They are particularly effective in supermarkets, museums, buses, and other shared spaces.

## Catchflow's Growth and Future Outlook

Its speakers are being used by corporations and institutions both in South Korea and abroad. The SRAY-S ultra-directional speaker has been installed in places such as the Asia Culture Center, Seoul Biennale, and Seongnam City Funeral Culture Center. The SRAY-D user-recognition directional speaker has been installed in 20 ATMs in Tokyo with the cooperation of the Tokyo Metropolitan Police Department to provide a "voice phishing prevention alert service." Catchflow has also signed a joint technology development agreement with Seiwa Electric, a Japanese road information systems company, for directional speaker hardware innovation.

It is currently developing AI video processing algorithms that can recognize user posture, environmental context, and even emotions. By integrating with directional speakers, it is expanding into new markets, including Japan's financial fraud prevention services and intelligent CCTV solutions. Building on this foundation, it plans to launch various solutions and services tailored to the Korean market. It is also gearing up for global expansion, backed by its portfolio of multiple international applications and patents.



Optimizing the Energy Efficiency  
of Buildings with AI

**Groundone**

Groundone provides a solution that uses AI to analyze energy usage for  
buildings and increase energy efficiency.  
The company was founded in November 2022.

**Company Name**

Groundone

**CEO**

Yoonjung Hong

**Key Product/Service**

Archflow

**Industry**

Artificial General Intelligence

**Technology**

- Generative AI
- Data Analysis & Visualization
- Visual Intelligence
- Machine Learning



archflow.ai





## "Archflow": Energy Efficiency Optimization Solution for Buildings through Energy Analysis Technology

Groundone offers Archflow, an AI-driven energy analysis and optimization solution designed to improve building energy efficiency. Archflow uses machine learning algorithms to analyze building energy usage patterns and determine optimal efficiency conditions. This allows energy-efficient design and renovation, reducing carbon emissions and improving sustainability.

The solution also automates complex simulations using computer vision technology. It can recognize existing architectural drawings and image files, convert them into 3D models, and digitally simulate environmental impact and energy consumption.

## Minimizing Carbon Emissions from the Building Design Stage

Most current energy analysis tools are designed for experts. However, Archflow breaks this barrier by offering a user-friendly interface. This guarantees greater accessibility for non-experts such as designers and on-site professionals.

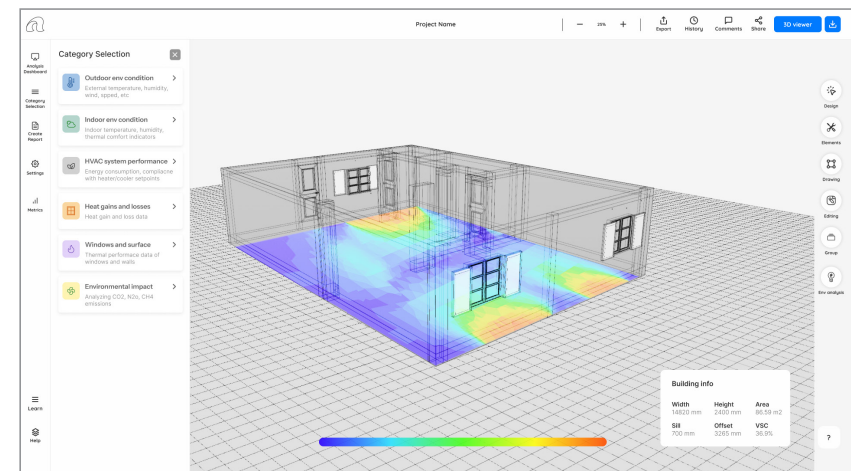
Archflow lets users make informed decisions that optimize energy efficiency and reduce carbon emissions in the early design phase of buildings and infrastructure. For short-term projects, it takes no more than three months to derive optimized results.

## Groundone's Growth and Future Outlook

Archflow is currently undergoing a PoC in collaboration with a French real estate company and is applying its technology to residential renovation projects. Early simulation results from the PoC have shown a 20% reduction in energy consumption and a 25% decrease in carbon emissions.

Groundone is dedicated to advancing Archflow and developing a SaaS solution designed to maximize energy efficiency in residential renovations, and plans to expand throughout Europe, including France. By establishing a foothold in the French market, it will adapt the solution to meet different regulatory requirements in countries, improve accessibility, and gradually streamline energy analysis and optimization.

Website Screen of the AI-Powered Building Energy Efficiency Optimization Solution "Archflow"  
(Source: Groundone)



Mission-Based Gamified Preventive  
Health Management Service

**injewelme**

For a healthy life, it is important to listen to your body's signals  
and take preventive action before getting sick.  
To achieve its mission, injewelme has developed WUD("Would You Do it")!, a gamified,  
deep-learning-driven preventive health management solution.  
The company was founded in March 2020.  
It is currently in the seed funding stage.

**Company Name**

injewelme

**CEO**

Geemyung Moon

**Key Product/Service**

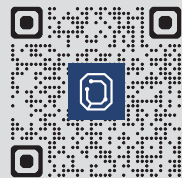
WUD!

**Industry**

Artificial General Intelligence

**Technology**

- Data Analysis & Visualization
- AI Tools & Platforms
- AI R&D
- Machine Learning



[injewelme.com](http://injewelme.com)



## "WUD!": Preventive Healthcare Solution

WUD!, developed by injewelme, is a preventive healthcare solution designed for children and adolescents that uniquely combines gamification with deep learning-based predictive technology. The company offers two flagship services, "WUD! for Obesity Care," which is used in more than 80 elementary schools nationwide as an obesity management solution for children, and "WUD! Welcome to Board Game Café," a mental healthcare program.

The platform integrates mobile connectivity, IoT, APIs, and vision AI to collect and monitor personal health records in real time. Based on this data, it uses a deep learning-based predictive framework to analyze trends and forecast potential health risks. By enabling early detection and timely intervention, WUD! helps users adopt preventive health management strategies before issues arise.

WUD! has undergone four clinical validation studies in South Korea specifically for childhood obesity management. It has been implemented in rural support initiatives by the Korea Sports Promotion Foundation and Jeonnam Provincial Office of Education, as well as Jeju Province's childhood obesity management program. As of September 2024, more than 4,000 students in more than 80 elementary schools nationwide are actively using WUD! to develop healthier habits. injewelme is also exploring partnerships with global nonprofit organizations and edtech companies.

### Competitive Edge of injewelme

What sets WUD! apart is its deep learning-powered predictive framework that implements "early detection" and "early response" based on user health data trends. A clinical research paper that discussed its deep learning-based personal health record prediction was featured as a monthly highlight in the IEEE Journal of Biomedical and Health Informatics in 2024.

Another differentiator is its use of gamification to motivate users and ensure long-term engagement. In

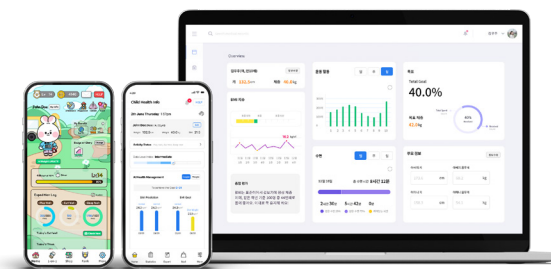
particular, the solution is unique due to its game-based implementation of real therapeutic techniques, developed in collaboration with medical professionals and psychologists. WUD! goes beyond individual users by creating a comprehensive health management ecosystem that integrates students, parents, local communities, and partner organizations through data sharing.

## injewelme's Growth and Future Outlook

Since its founding in March 2020, injewelme has made significant strides, including supplying its WUD! solution to Jeju Province's "Happy Challenge" childhood obesity management program. Since the establishment of a branch in Singapore, the company has formed multiple partnerships with national institutions and corporations and is conducting pilot tests and engaging in investment rounds. As of September 2024, injewelme has secured KRW 500 million in seed funding.

In the future, the company will focus on aggressive global expansion, including in the Asian market, by developing digital therapeutics and a big data health platform and expanding services to include eye and skin health management. With these initiatives, injewelme aims to become Asia's largest health big data platform specializing in children and adolescents within the next five years.

Web and Mobile Interface of "WUD!"  
injewelme's Child and Adolescent  
Obesity Management Web  
and mobile screens (Source: injewelme)



Optimized Fashion Logistics Solution  
Using Dongdaemun Fashion Data

## Jupiter Labs

Jupiter Labs provides integrated business planning (IBP) solutions for fashion supply chain management (SCM) by applying AI and database algorithms.

The company was founded in October 2022.

It raised KRW 1.2 billion in seed funding in 2024.

**Company Name**

Jupiter Labs

**CEO**

Ganghwi Ahn

**Key Product/Service**

Weaving

Weaving-X

**Industry**

Artificial General Intelligence

**Technology**

- Generative AI
- Data Analysis & Visualization



[jupiterlabs.com](https://jupiterlabs.com)



## Jupiter Labs' AI Machine Learning-Based Logistics Business Solution "Weaving" and Its Global Expansion Version "Weaving-X"

Jupiter Labs' flagship service, Weaving, is a comprehensive IBP solution covering order placement, purchasing, storage/retrieval, inventory tracking, shipping, settlement, and demand forecasting. It builds the system of workflow automation and decision making based on demand forecasting by using master data, integrated database generation algorithms, and AI machine learning technologies. With its own fulfillment center, it offers not only physical logistics services but also supply chain management, domestic transportation, and international shipping.

In 2024, Jupiter Labs established a 6,600 m<sup>2</sup> fulfillment center in the Integrated Logistics Complex in Gunpo and launched Weaving-X, a new express shipping and freight forwarding service. Weaving-X seamlessly integrates with multiple international sales platforms, automates workflows and supports global expansion. Based on its national supply chain, It consolidates domestic and international logistics operations into a single, unified solution.

With the integration of Weaving, international express shipping, and forwarding services, the entire process can now be managed within a single system, from order collection from global sales platforms to inventory management, delivery, and international shipping.

## An Integrated Fashion Supply Chain Solution Based on Dongdaemun Fashion Data

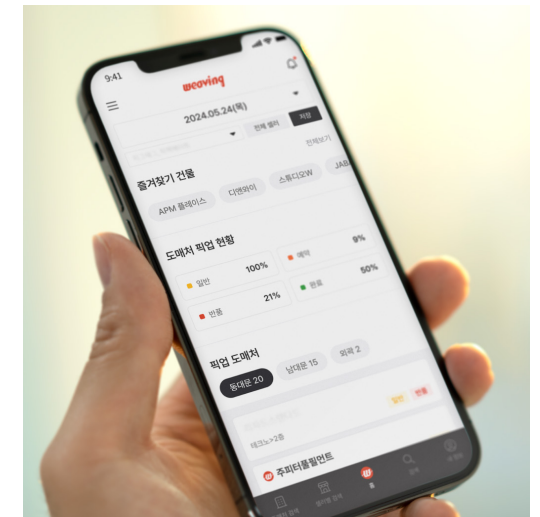
Conventional fashion logistics lacked a unified supply chain management system since integrating different platforms was complex and master data structures were absent. Weaving and Weaving-X use fashion consumption data from Dongdaemun, which makes them the only IBP solution directly connected to fashion supply chains in Korea.

Jupiter Labs is applying its first-mover advantage in Korean supply chain data to offer its solutions and fulfillment services, while expanding into international markets, such as Japan, the United States and China.

Its infrastructure is integrated into its Japanese fashion commerce platform partner, NUGU. Unlike other services, it offers a truly unified platform that connects multiple domestic and international sales platforms, order management systems, and express shipping and freight forwarding networks.

## Jupiter Labs's Growth and Future Outlook

As of August 2024, it has achieved KRW 1.6 billion in cumulative revenue and KRW 2 billion in monthly transaction volume. It has partnered with more than 4,000 fashion platforms and brand companies, and has begun raising a Pre-Series A funding round in the second half of 2024. It is also continuously advancing Weaving-X, which was launched in October 2024, to further develop its all-in-one solution. Moreover, it plans to expand its fulfillment center capacity to diversify business models by attracting new clients.



Mobile Interface of "Weaving," an Integrated Supply Chain Planning Solution  
(Source: Jupiter Labs)

Enabling Even Non-Experts to Build AI  
with a Single Click

**Kaier**

**Kaier offers a platform for machine learning operations (MLOps) and development that allows anyone, even non-experts, to develop optimal AI models.**

**The company was founded in November 2019.**

**It secured seed investment from FuturePlay in 2020.**

**Company Name**

Kaier

**CEO**

Gyohyuk Lee

**Key Product/Service**

KAI.S

**Industry**

Artificial General Intelligence

**Technology**

- Computer Vision
- Data Analysis & Visualization
- Edge Computing
- AI Tools & Platforms
- AI R&D
- Visual Intelligence
- Machine Learning



[kaier.co.kr](https://kaier.co.kr)

**Kaier**

**"KAI.S":  
One-Click AI Automation  
MLOps Solution**

Kaier provides a one-click AI automation MLOps platform that allows users to build AI models they want with a single click. Kaier's flagship solutions are KAI.C and KAI.S.

First, KAI.C converts existing or desired data into a format suitable for AI training. KAI.S then processes, trains, and validates the whole data within 15 hours. All it takes to run an AI project is to select the data and click the "Start Training" button. KAI.S learns and operates various types of data, including images, tables, and time-series data, which makes it ideal for applications in smart factories.

**Easily Build AI Models  
Without Experts at  
a Lower Cost**

Kaier's one-click AI automation solution features a GUI-based system that makes it simple and intuitive for anyone to use. Since industry experts who have data can conduct their own AI projects without relying on AI specialists, they can run multiple AI projects in different fields simultaneously.

Since the solution runs on a single graphics processing unit (GPU), hardware investment costs remain low. Kaier's solution has another advantage as it is installed directly on the client's internal computers, eliminating the risk of data leaks. As a result, businesses can digitally transform their operations safely and affordably.

**Kaier's Growth and  
Future Outlook**

Kaier's solutions are continuously creating new use cases, starting with industries such as smart factories and infrastructure operations. Major Korean manufacturers, including Samsung, LG, Nongshim, and Kolmar Korea, are already using Kaier's technology for defect detection, root cause analysis of process failures, process optimization, and overall optimizations.

Kaier plans to expand its client base into various industries including finance, healthcare, and defense. Its objective is to secure KRW 3 billion in Series A funding by 2024 and acquire 20 enterprise clients by 2025. Looking ahead, it is set to develop a public cloud-based MLOps platform to pave the way for global market expansion.

"KAI.S": One-Click AI Automation MLOps Solution (Source: Kaier)



Diagnosis and Forecasting of  
Faults in Manufacturing Equipment  
Using Ultrasound Acoustic Data

**MOVIC Lab**

**MOVIC Lab specializes in AI-driven fault diagnosis by analyzing  
ultrasound acoustic signals generated by manufacturing equipment.**

**The company was founded in October 2017.**

**It has raised KRW 1.5 billion in Pre-Series A funding.**

**Company Name**

MOVIC Lab

**CEO**

Wongun Lee

**Key Product/Service**

WatchBAT

**Industry**

Artificial General Intelligence

**Technology**

- Data Analysis & Visualization
- Cloud & AI Infrastructure
- AI R&D
- Machine Learning



[moviclab.com/en](http://moviclab.com/en)





### Analyzing Only Ultrasound for Diagnosis and Prediction of Both Physical and Electrical Defects

WatchBAT, developed by MOVIC Lab, is an AI-powered solution that analyzes the data of ultrasound (acoustic sound) generated from equipment to diagnose and predict faults. With the help of WatchBAT, businesses can detect abnormal signals in machinery, identify causes of equipment failures, and estimate remaining equipment lifespan.

WatchBAT pinpoints the exact location where ultrasound signals originate, processes the data, and translates it into objective metrics. MOVIC Lab continues to refine its proprietary AI-powered ultrasound analysis algorithms. Unlike conventional diagnostic methods that rely on vibration or current data, it uses high-capacity data processing technology that efficiently handles these large-scale ultrasound signals.

### Non-Contact Sensors for Greater Accessibility

Existing equipment diagnostic solutions rely on contact sensors (vibration sensors), which often had installation difficulties due to surface shape and condition limitations. WatchBAT overcomes these constraints by using non-contact ultrasound sensors for deployment on equipment that was previously inaccessible to conventional solutions, while also detecting both mechanical and electrical faults. Ultrasound data is high precision data that enables earlier fault detection than vibration or current data, with a higher precision.

Some manufacturing equipment faced limitations in diagnosing their condition using conventional vibration and current data, but the ultrasound analysis solution can resolve this issue. For example, machines that cut raw materials can measure blade wear with ultrasound and recommend an appropriate replacement cycle that maintains quality. In the case of motor bearings, ultrasound sensors can detect insufficient lubrication, cracks, and other structural issues.

### MOVIC Lab's Growth and Future Outlook

MOVIC Lab has conducted PoC projects with major Korean conglomerates, including Samsung Display, Samsung SDI, and LG Energy Solution. It is expanding its business with a focus on equipment that can only be diagnosed using ultrasound, such as vacuum pumps, notching machines, and motors. It also plans to extend its solutions to ports, aviation, and other non-manufacturing industries.

Following its Pre-Series A funding last year, the company is currently raising additional investment. It targets international markets with a high concentration of industrial equipment, including those in Asia and North America.

"WatchBAT" KIT: MOVIC Lab's Ultrasound Acoustic Data-Based Fault Diagnosis and Prediction Solution  
(Source: MOVIC Lab)



AI-Generated Motion Data  
with Contextual Understanding

**NationA**

NationA provides "Neuroid," a generative AI-powered service  
for creating 3D motion content, as a SaaS model.  
The company was founded in March 2022.  
It has raised KRW 2 billion in Pre-Series A funding.

**Company Name**

NationA

**CEO**

Sooyeon Yoo

**Key Product/Service**

Neuroid

**Industry**

Artificial General Intelligence

**Technology**

- Computer Vision
- Generative AI
- AI Tools & Platforms
- Machine Learning



nation-a.com

**NATION A**

### "Neuroid": Generative AI-based 3D Motion Content Creation Service

Neuroid, developed by NationA, is a generative AI-based 3D motion content production service. It generates motion data based on user input prompts with context awareness. The platform can be used to create not only AR/VR experiences and robotic motion but also 3D content and industrial 3D data. Through the SaaS platform, users can generate motion data in seconds.

It makes 3D content production faster and more accessible for game developers and marketing content creators. Since its launch in October 2023, it has gained more than 1 million global users within one month. At CES 2024, it won Innovation Awards in two categories. It is collaborating with major industry players such as Krafton and Zepeto, and has signed contracts with Adobe, LG Electronics, and LG U+.

### Pioneering AI-Generated 3D Motion with Proprietary Technology

What sets NationA apart is its full in-house development of core generative AI technologies for 3D motion content production, including its own foundation model. NationA's text-based 3D motion generation AI foundation model, built on more than 250 million motion data points, offers a fully integrated solution from 3D motion dataset construction to AI-powered motion generation.

Another key distinction is its ability to understand context from text and voice inputs to generate 3D/4D motion content. Despite the increasing interest in generative AI, this is the only solution in the world capable of comprehending context to create motion content.

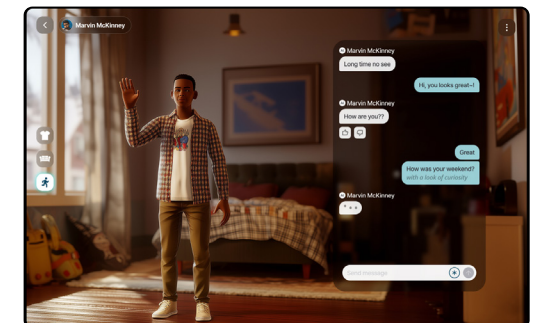
### NationA's Growth and Future Outlook

NationA has earned multiple accolades, including Minister of Science and ICT Award at the 2023 Challenge K-Startup competition, first place at the Korea Creative Content Agency (KOCCA) Early-Stage Startup IR Demo Day, and first place at the SBA Startup Hub Pitching and Contest.

In addition to Neuroid, it has also introduced "Hey.D," a 3D AI chat service designed for everyday users. This platform allows anyone to easily create and interact with 3D interactive content. Powered by a small large language model (sLLM) and a 3D foundation model, this service provides a highly immersive chat experience with AI-driven 3D characters.

Looking ahead, NationA aims to transform the global 3D content production market using generative AI by developing easily accessible AI-powered tools for users worldwide. It plans to become the most innovative AI-3D platform in the global generative AI market by 2027, and envisions itself as a leading global AI-3D technology company by 2029.

Interface of "Neuroid," a Generative AI-Powered 3D Motion Content Creation Platform (Source: NationA)



Cloud-Native Open-Source Software to  
Establish Network Infrastructure

**NetLOX**

NetLOX is a provider of cloud-native software solutions.

The company was founded in July 2020.

It has raised KRW 100 million in seed funding.

**Company Name**

NetLOX

**CEO**

Seokhwan Gong

**Key Product/Service**

LoxiLB

**Industry**

Artificial General Intelligence

**Technology**

- Edge Computing
- Cloud & AI Infrastructure
- Security & Privacy



netlox.io

 **NETLOX**

The logo consists of a stylized 'X' symbol made of two overlapping lines, one blue and one green, followed by the word 'NETLOX' in a bold, dark blue, sans-serif font.

**"LoxiLB":  
Cloud-Native  
Open-Source Software**

LoxiLB is an open-source software solution developed by NetLOX. It improves networking and security for cloud-native AI services.

It focuses on building and running applications that use cloud-based services and provided models. Designed for business customers, LoxiLB uses eBPF, a next-generation kernel technology that enhances operating system-level control.

**Efficient Network  
Solutions for Enterprises  
with No Compatibility  
Issues**

LoxiLB has seamless compatibility with cloud-native AI services by eliminating integration issues while providing standardized connectivity. LoxiLB secures network visibility and security with intelligent telemetry technology and gives enterprises full control over AI-powered services.

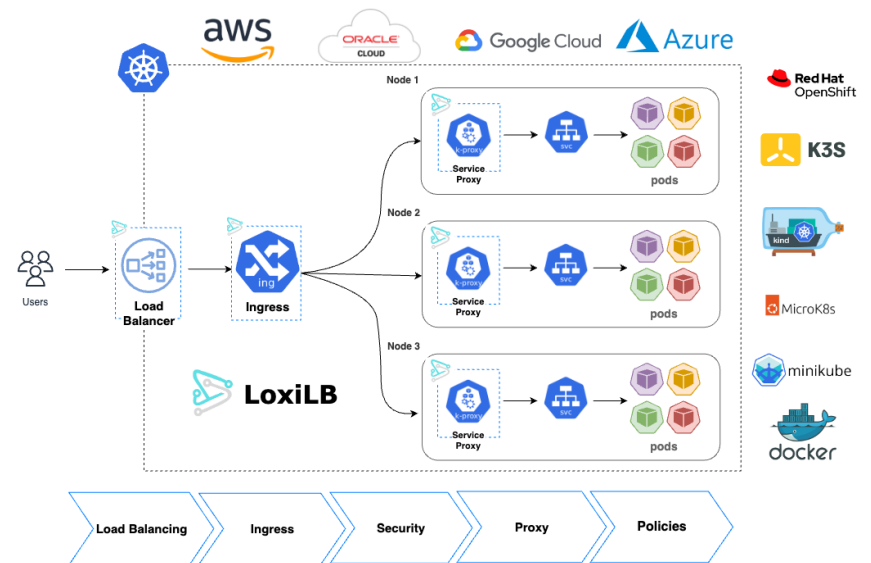
It integrates eBPF, a scalable kernel virtual machine. It also supports Stream Control Transmission Protocol (SCTP) for multi-homing and high availability (HA) for multiple servers. This helps enterprises stabilize their networks and maximizes service availability.

**NetLOX's Growth and  
Future Outlook**

LoxiLB is being deployed in 5G cloud infrastructure for major enterprises and in Cloud-Native Diameter Routing Agent (CNDRA) services for IT companies. In a significant milestone, LoxiLB became the first Korean company to be selected for the Cloud Native Computing Foundation (CNCF) Sandbox Project.

NetLOX plans to validate its technology with CNCF's support while increasing industry recognition. The company's long-term vision is to move beyond the Sandbox phase into CNCF's incubation program and ultimately position LoxiLB as a global standard for cloud-native networking.

Image of "LoxiLB," NetLOX's Cloud-Native Open Source Software (Source: NetLOX)



Forming Healthy Smartphone Usage  
Habits with AI App

**Piloto**

Piloto is the developer of "Taki," an AI-powered mobile app designed to educate and guide teenagers in forming healthy habits of using smartphones. The company was founded in May 2022 as part of Samsung Electronics' in-house venture program. It has secured KRW 700 million in funding to date.

**Company Name**

Piloto

**CEO**

Dayoung Lee

**Key Product/Service**

Taki

**Industry**

Artificial General Intelligence

**Technology**

- AI Tools & Platforms
- Visual Intelligence



[piloto.kr](https://piloto.kr)



**"Taki":  
AI Character That Helps  
Kids Manage Screen  
Time and Posture**

Taki is designed to help young children and teenagers by encouraging them to follow smartphone usage rules and self-regulate their screen time. When the app is launched, an AI character appears and shows the remaining screen time. If the user-defined screen time is almost up, the character gently reminds the user with a message such as, "It's almost time to take a break." The AI character features real-time chat powered by ChatGPT that adapts its language to match the child's language development level for more natural interactions.

The app, equipped with Vision AI, also helps children maintain proper posture while using digital devices. It detects the optimal distance between the device and the child and pauses the screen and prompts adjustments if the child is too close to the screen or lying down while watching.

**A Mobile App That  
Encourages Healthy  
Habits and Supports  
English Learning**

With Taki, children can set their screen time limits and the number of videos they can watch by themselves. The app's friendly interface is designed to encourage kids to follow their own usage rules. It is built on educational principles that promote self-discipline rather than relying on coercive controls.

It also offers an English version to increase natural exposure to the language, which can improve their English skills. The mobile app is free and can benefit not only children but also adults who are struggling with smartphone overuse.

**Piloto's Growth and  
Future Outlook**

Taki currently has been downloaded more than 200,000 times, with 10,000 daily active users (DAU). With a global retention rate of approximately 23%, the app demonstrates frequent use.

Taki plans to advance its teen-focused services using data collected from the United States. Unlike in Korea, where younger children commonly use smartphones, American teens typically start using digital devices in middle school. Based on the observed market response and consumer preferences, Taki plans to expand its product line specifically for teenagers.

Image of Piloto's AI Mobile App "Taki"  
(Source: Piloto)



AI-Powered Data Analysis Platform for  
Comparing Bottled Water

**PinotLab**

PinotLab, a water tech startup, has developed Water Sommelier,  
an AI-based platform for comparing and analyzing bottled water data.  
The company was founded in June 2021.  
It secured a KRW 500 million seed investment in November of the same year.

**Company Name**

PinotLab

**CEO**

Sungwon Ahn

**Key Product/Service**

Water Sommelier

**Industry**

Artificial General Intelligence

**Technology**

- Data Analysis & Visualization
- AI Tools & Platforms



[pinotlab.com](https://pinotlab.com)





### "Water Sommelier": Bottled Water Distribution Solution

PinotLab's Water Sommelier platform collects bottled water sales data and integrates it with its own quality evaluation criteria to build a bottled water commerce analysis model. Based on this, the platform provides customized bottled water branding consulting for each distribution channel and customer.

Water Sommelier goes beyond basic analysis data by using data analysis technology to create visual representations of key product attributes, including taste profiles, mineral composition, and storytelling. The results analyzed by generative AI are converted into natural language insights and provided by Software as a Service (SaaS). It is also developing an automated content generation service for product-related materials.

Currently, PinotLab has collected data on more than 1,000 bottled water brands from more than 60 countries, offering a curated selection service for customers. Additionally, it is expanding into its own bottled water distribution business based on the accumulated data. This in turn becomes the basis for acquiring additional data.

### A Unique Water Tech Startup that Integrates IT with Bottled Water

PinotLab is a water tech startup that brings IT innovation to the traditional offline bottled water industry. The company has collaborated with nationally certified water sommeliers and global water experts to establish comprehensive water information, taste, and quality evaluation criteria. It is using its platform to build its own sales database while expanding its network of domestic producers and distributors and positioning itself as a global water tech leader.

The company is also forming partnerships with international water experts and organizations to support Korean bottled water exports and develop a global water commerce distribution system. In the near future, it plans to launch a commerce solution for bottled water companies. A trial implementation of the commerce solution on its own online store has already shown impressive results, with monthly sales increasing fivefold compared to early 2024 (as of October).

### PinotLab's Growth and Future Outlook

Since its founding, PinotLab has achieved an impressive 300% annual revenue growth rate. By 2024, it secured four B2B paid memberships with domestic enterprises. It plans to expand this to 10 by the end of the year. It has also established four partnerships on bottled water exports.

It is refining its distribution solution, currently in development and pilot testing, to create a sales forecasting model applicable to global markets. This service will analyze export feasibility based on international regulations and cater to the needs of Korean bottled water companies looking to expand overseas.

Pinot Lab's objective is to develop its own premium water brand and expand into tea, coffee, and other beverage markets in the long term.

Image of PinotLab's "Water Sommelier" Mobile App (Source: PinotLab)



Automatic Writing Evaluation with  
a Korean-Specialized LLM

**Teddysum**

Teddysum is a natural language processing (NLP) company.

The company offers services based on "Bllossom,"  
its Korean-specialized language model.

The company was founded in January 2021.

**Company Name**

Teddysum

**CEO**

Youngkyun Hahm

**Key Product/Service**

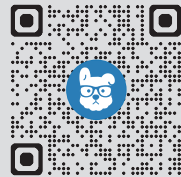
Bllossom

**Industry**

Artificial General Intelligence

**Technology**

- NLP
- Generative AI
- AI R&D
- Visual Intelligence



teddysum.ai



### "Bllossom": A Korean-Specialized Language Model Built on an Understanding of Korean Culture

Bllossom is a Korean-specialized language model built on the open-source Llama 3.0 and 3.1, designed to understand the Korean language and culture. It processes conversation comprehension, summarization, and automated writing evaluation, with a strong emphasis on summarization and reasoning abilities.

Teddysum offers Bllossom-based flagship products, including "Bllossom-V," an image inference language model, "writing-eval," an automated Korean writing evaluation solution, and "bLang," an LLMOps platform optimized for Bllossom.

### Improving Learning Efficiency and Cost-Effectiveness with ELO Technology

Teddysum has integrated its proprietary Exclusive Layer Optimization (ELO) technology into Bllossom to significantly improve data training efficiency. This approach reduces training time and costs to one-fifth of that of other companies. With its ability to train efficiently using minimal data, Bllossom is well-suited for specialized domains and offers a unique AI-powered automated writing evaluation service.

To develop customized small-scale large language models (sLLMs), Teddysum pre-trains on clients' data, while enhancing operational manageability through its in-house LLMOps platform, bLang.

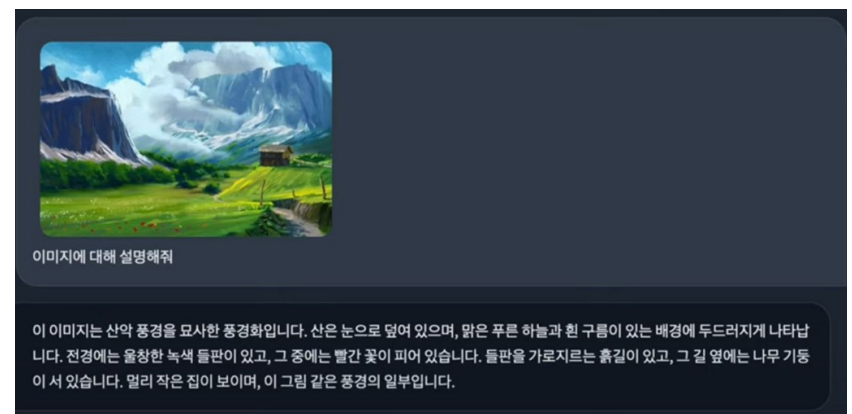
### Teddysum's Growth and Future Outlook

Currently, Bllossom is being used in industries including finance and the military for services such as LLM-based automated coding, translation, and interpretation. Teddysum plans to further optimize Bllossom and launch its lighter version, "Bllossom Lite," by 2024.

This version will be compact enough to train and run on a GTX 12GB GPU or smaller. Bllossom-V is set to evolve into a domain-specialized multi-modal model by 2026 and improve AI's medical image inference technology for tables, charts, X-rays, and others.

It is also preparing for global expansion with a focus on the Asian market. By 2025, it plans to introduce "Bllossom-MoE" to extend language support beyond Korean to Vietnamese, Malay, and other minor languages.

Use Case of Teddysum's Image Inference Language Model "Bllossom-V" (Source: Teddysum)



Optimizing Business Decision-Making  
Process with Predictive Algorithms

**Tilda**

Tilda provides AI-driven optimization solutions for businesses throughout industries,  
including manufacturing, energy, and logistics.

The company was founded in March 2021.

It has raised a total of KRW 1.9 billion in funding, including Pre-Series A funding.

**Company Name**

Tilda

**CEO**

Jiryang Jung

**Key Product/Service**

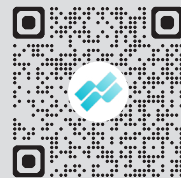
ArgMax

**Industry**

Artificial General Intelligence

**Technology**

- Data Analysis & Visualization
- Robots & Autonomous Systems
- AI R&D
- Reinforcement Learning
- Machine Learning



tilda.co.kr



## "ArgMax": A Business Solution That Transforms Human Experience and Intuition into Algorithms

Tilda's flagship solution, ArgMax, replaces human intuition-based decision making with data-driven algorithms to suggest an optimal business system. With ArgMax, companies can improve overall business cost efficiency and resource utilization in raw material procurement, manufacturing, and logistics.

For manufacturing equipment, Tilda optimizes material input speed and equipment intensity to increase production output while reducing defect rates and energy consumption. The solar installation planning and equipment control solution incorporates a sun-tracking AI model that minimizes electricity costs by utilizing fewer solar panels and energy storage systems (ESS). When used in logistics, Tilda can optimize container loading and truck dispatching to reduce transportation and raw material procurement costs.

### Predicting the Future Like AlphaGo to Calculate Optimal Decision Values

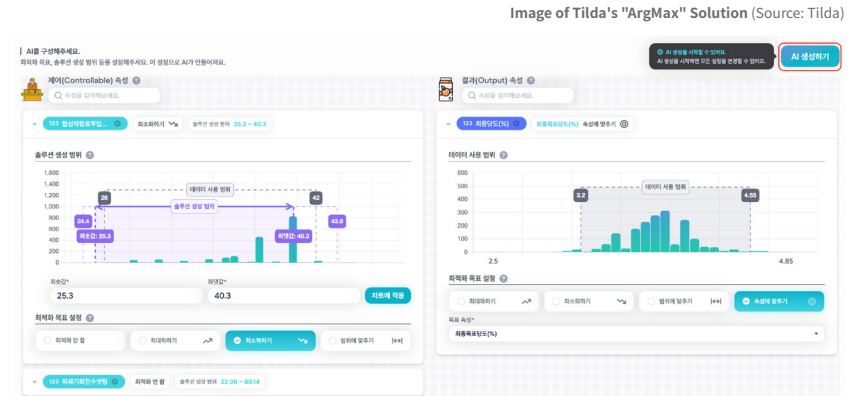
Existing business optimization solutions have relied on robotic process automation (RPA), digital twin monitoring, and others, but these approaches have been criticized for only making minor improvements rather than true optimization. Unlike conventional deep learning or reinforcement learning methods, ArgMax employs a cluster optimization algorithm to provide more effective business solutions.

Like an "industrial version of AlphaGo," Tilda's solution not only forecasts the future but also calculates optimal decision values to improve predicted outcomes. Compared to mathematical optimization or reinforcement learning, it significantly lowers decision-making costs and processing time. As long as a company has relevant decision-making data, it can use ArgMax to boost revenue with minimal risk.

## Tilda's Growth and Future Outlook

Tilda has two business models: customized AI solutions and Software as a Service (SaaS) offerings. The company will expand into new industries and analyze enterprise demand to feature more subscription-based services.

Tilda is also accelerating its global expansion. It plans to establish a local subsidiary in Japan by the first half of 2025, followed by additional subsidiaries in the United States, Europe, and Vietnam. In the short term, it is working with Fuji Electric, a Japanese electronics manufacturer, to develop a raw material futures purchasing optimization solution, which will soon be expanded to cover minerals, rare earth elements, and grains as well. In the logistics sector, it is preparing to commercialize its container load optimization solution, which has already been fully developed.



Empowering Everyone to  
Become an AI Creator

## Toonsquare

Toonsquare operates "Tooning," an AI content authoring tool designed for webtoons.  
It ultimately builds a thriving webtoon ecosystem where anyone can become  
an AI creator and share their stories.

Toonsquare was officially launched in 2017 through Samsung Electronics'  
in-house venture program "C-Lab" and was spun off in 2019.

**Company Name**

Toonsquare

**CEO**

Hoyoung Lee

**Key Product/Service**

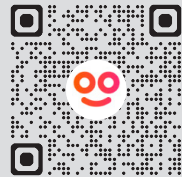
Tooning

**Industry**

Artificial General Intelligence

**Technology**

- NLP • Generative AI
- Cloud & AI Infrastructure
- AI Tools & Platforms
- AI R&D
- Machine Learning



toonsquare.co

**TOONSQUARE**  
STORIES CHANGE THE WORLD

## The Story of Toonsquare's Solution

Currently, Toonsquare's Tooning Education and Tooning Studio platforms have more than 500,000 active users. More schools are actively adopting Tooning as the most safe generative AI tool for education. Tooning Education has been introduced in more than 500 schools to date, and more than 14,000 teachers and 225,000 students use the platform. The platform includes features such as AI-generated images and webtoons, as well as a GPT-powered dialogue system that allows users to interact with historical figures and professionals in various fields.

In Tooning Studio, creators can use AI writers to plan stories and generate images or webtoons. Toonsquare is also working on improving its services with AI content creation partnerships with webtoon studios, such as The Grimm Entertainment, Nautilus, and IPX.

## Competitive Edge of Toonsquare

Toonsquare uses generative AI to introduce various technologies such as Text to Toon (TTT), Text to Image (TTI), and real-time image generation. With these tools, users can input text or images and generate content in their desired style. Users can plan stories or storyboards with Tooning GPT, while Tooning Magic enables them to create images in an art style they want (e.g., Kim Hongdo style, Lee Jungseop style, or semi-realistic) and to enter prompts, which makes AI-powered content creation accessible to everyone.

Tooning offers a low-cost, high-quality webtoon production environment by integrating its AI-based webtoon automatic generation technology into existing webtoon production processes. It also provides an intuitive platform for casual users to quickly and easily produce daily webtoons and storyboards, which has a significant impact in the broader digital content industry.

## Toonsquare's Growth and Future Outlook

Guided by its motto, "Stories Change the World," Toonsquare is on a mission to create a world where anyone can become an AI creator. In 2023, it achieved notable milestones, including being recognized as a First Penguin in webtoon technology, winning the Startup:CON Battlefield Grand Prize, and receiving the Bucheon Cultural Content Startup Award.

Toonsquare plans to continue expanding opportunities for future AI creators. With its philosophy of "Bringing the joy of creation from the 1% to the remaining 99%," the company will launch a global webtoon platform where anyone can become a creator. It is also developing an webtoon production service designed to significantly improve the efficiency of professional webtoon artists, with a targeted launch in the first half of 2025.

Intro Image of Toonsquare's "Tooning Education" (Source: Toonsquare)



AI-Powered · AR Solution That Eliminates  
Price Inflation in Interior Materials

**TwoWhy**

TwoWhy is an interior service company that uses AI to provide optimal space solutions.

The company was founded in July 2021.

It has secured a total investment of KRW 730 million,  
including KRW 600 million in Pre-Series A round funding.

**Company Name**

TwoWhy

**CEO**

Dohyun Yang

**Key Product/Service**

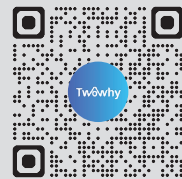
Inbuzz

**Industry**

Artificial General Intelligence

**Technology**

· Machine Learning



[twowhy.co.kr](http://twowhy.co.kr)

**TwoWhy**



**"Inbuzz":  
AI-powered Interior  
Material Cost  
Optimization Solution**

Customer satisfaction in the interior design market is low due to a complex distribution structure and widespread opaque pricing practices. TwoWhy's core solution, Inbuzz, tackles these issues by improving the unscientific material estimation methods and subcontracting structures that rely heavily on private contracts in the interior material and construction market.

Inbuzz accurately calculates the optimal quantity of materials needed for a site using its drawing recognition technology. Additionally, it has established a reverse auction system that uses a vast interior material database to procure the best materials that meet customer needs at the best prices. Augmented reality (AR) measurement technology is applied to site surveys for fast and precise collection of on-site information.

**AI-driven Cost Reduction  
Without Compromising  
Material or Construction  
Quality**

TwoWhy's Inbuzz uses proprietary AI technology to optimize material quantities and supply pricing and effectively eliminate price inflation caused by complex interior distribution structures.

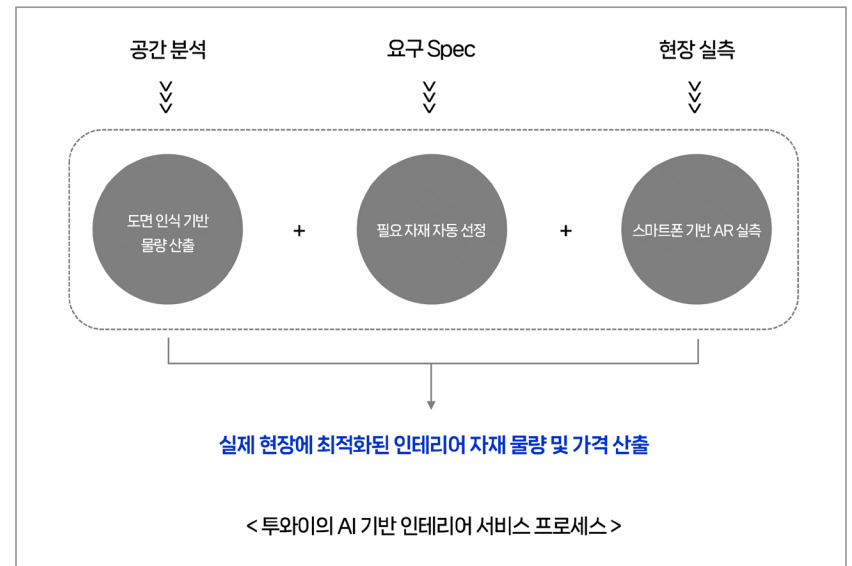
Rather than lowering product grades or construction quality to reduce interior costs, Inbuzz uses technology to maintain the same product standards and construction quality while significantly reducing the expenses.

**TwoWhy's Growth and  
Future Outlook**

TwoWhy has secured a wide range of corporate clients, including businesses in F&B, healthcare, education, and recreational sports, all of which require continuous space management. With Inbuzz, clients have been able to reduce their interior costs by an average of 20% or more.

TwoWhy plans to further upgrade its drawing recognition and AR measurement technologies to develop and commercialize an AI-powered automated quotation system that provides real-time, site-specific estimates. This service will be accessible to all stakeholders in the value chain, including interior buyers, interior sellers, and subcontractors. With this foundation, TwoWhy aims to expand into global markets such as the United States and Japan.

TwoWhy's AI-Based Interior Service Process (Source: TwoWhy)



Enabling Hyper-Personalized Product  
Development with AI Deep Learning

**VAIV AI**

VAIV AI is a provider of a hyper-personalized software  
as a service (SaaS) platform powered by AI deep learning.  
The company, which is currently in the pre-startup phase,  
has secured KRW 50 million in funding.

**Company Name**

VAIV AI

**CEO**

Junho Hong

**Key Product/Service**

Hyper-Personalized SaaS Platform  
Powered by AI Deep Learning

**Industry**

Artificial General Intelligence

**Technology**

- NLP
- Data Analysis & Visualization
- Robots & Autonomous Systems
- AI Tools & Platforms
- Machine Learning



vibei.ai

**vibeAI**

## AI Deep Learning-based Behavior Pattern Analysis Platform for Hyper-Personalized Product Development

VAIV AI has developed a hyper-personalized SaaS platform that uses AI deep learning to analyze customer behavior patterns and give real-time customized solutions. By using AI-powered data analytics, the platform provides businesses with valuable insights while simultaneously improving operational efficiency.

At the core of VAIV AI's technology is its "AAA (Aggregating Data, AI Deep Learning, Acting with Data)" strategy. This technology focuses on identifying and analyzing user behavior patterns to better understand specific interests and engagement trends. It has also been integrated to offer customized API services for businesses.

## Competitive Edge of VAIV AI

VAIV AI's platform is powered by an AI-based morphological analysis engine trained on 600 million online reputation data points from more than 6 million businesses over the past five years, and offers increased data processing speed and accuracy. The company has demonstrated global competitiveness with major clients such as Toronto International Airport and is continuously advancing its model using real-world user data.

At Toronto International Airport, travelers can sign up for a loyalty program with VAIV AI that provides free Wi-Fi and real-time trend-based travel information.

Loyalty members can redeem rewards like cash in the airport ecosystem, while the platform collects behavioral data from sources such as Google search queries, Meta, Instagram hashtags, and user comments. This AI-driven data analysis allows the airport and partner businesses to gain actionable insights, optimize marketing strategies, and improve airport operations.

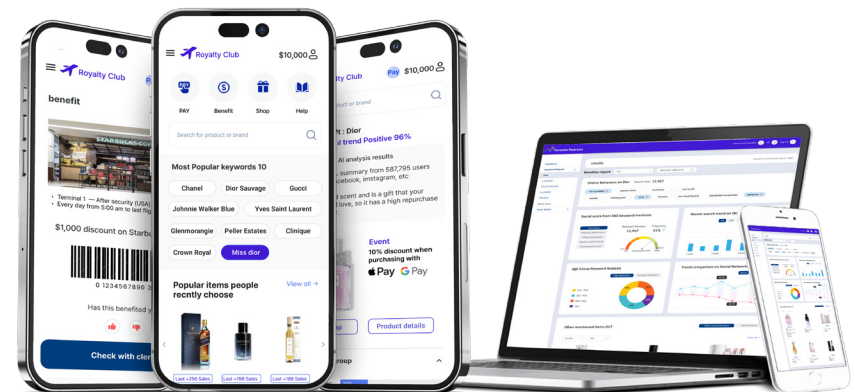
## VAIV AI's Growth and Future Outlook

In October 2024, VAIV AI signed an MOU with Loyalty Information Technologies of Canada for a PoC project at a Canadian airport. With this collaboration, VAIV AI intends to introduce a hyper-personalized loyalty program by applying AI-driven SaaS platform solutions to collect, analyze, and apply real-time user behavior data for customized services.

This solution is poised to expand its services beyond airports to include e-commerce, shopping malls, consumer goods companies, and financial and media services that manage customer engagement programs.

VAIV AI is also collaborating with Ulsan National Institute of Science and Technology (UNIST) to develop advanced autonomous mobility solutions, which will be deployed in airports, shopping malls, exhibition centers, and museums to enhance user convenience.

Intro Image of a Canadian Airport's Loyalty Program  
(Source: VAIV AI)



# INTELLIGENT AGENTS



## AI Startups from Seoul AI Hub

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BLAST

Good & Wise

StyleAI

Vdigm

Streamlining Operations with Customized  
AIOps Business Solutions for Corporations

**BLAST**

BLAST provides "Embition," an AI business solution for corporate IT elements such as UX/UI.  
The company was founded in January 2023.

**Company Name**

BLAST

**CEO**

Jeonghyun Bae

**Key Product/Service**

Embition

**Industry**

Intelligent Agents

**Technology**

- Generative AI
- Cloud & AI Infrastructure
- Security & Privacy
- AI R&D
- Machine Learning



[blast-team.com](https://blast-team.com)



**"Embition":  
AIOps Data Upload and  
Analysis UI Build Solution**

Businesses need a centralized interface where they can easily upload, search, and manage data to improve work efficiency. Embition is a solution designed to build an intuitive UX/UI for easy uploading and management of enterprise data.

Powered by AI for IT Operations (AIOps), Embition learns and categorizes data uploaded by workers without any labeling, and automatically verifies accuracy of uploaded documents.

It uses retrieval-augmented generation (RAG) to reference existing internal data to ensure that relevant and high-similarity results are surfaced. With Embition, companies can improve data accuracy, reduce review time, and build more efficient business UI systems.

**Allow Even Non-Experts to  
Easily Build Customized  
UIs Without Data Errors  
or Labeling**

Embition provides an AIOps solution that can be easily built by any users without development knowledge. This makes it simple for normal employees to register and manage data to connect with AI. Key strengths of Embition include minimized data errors with AI-powered validation and automated learning and categorization without the need for manual labeling.

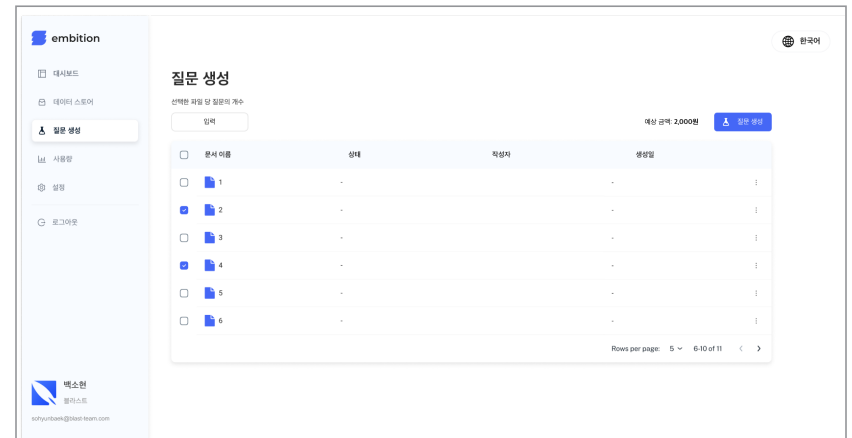
It also provides a feature that grants different data access permissions based on job roles and departments to implement a customized UI tailored to specific work in the company.

**BLAST's Growth and  
Future Outlook**

BLAST was selected as an AI Voucher Supplier in February 2024. The company partnered with G-Man Auto Parts, a used auto parts trading platform, to conduct an AI initiative for automatic categorization and generation of used car parts data. BLAST has secured a total of KRW 300 million in funding from Korea Technology Finance Corporation and the Korea SMEs and Startups Agency.

BLAST is focused on improving its AI solutions by collaborating with clients and building strong reference cases. The company is currently working with SM Entertainment to build AI solutions and conduct PoC projects. BLAST is set to roll out new features, including an intuitive dashboard for tracking service usage, RAG-based data prioritization, various business tools, and API integration.

Interface of AIOps Data Upload and Analysis UI Build Solution "Embition" (Source: BLAST)



CSAT Korean Prep with Generative AI

## Good & Wise

Good & Wise provides a literacy learning solution powered by generative AI.

The company was founded in July 2021.

It reached KRW 150 million in revenue in its first year.

It has secured sales contracts totaling KRW 1.6 billion for the next four years.

**Company Name**

Good & Wise

**CEO**

Sungho Choi

**Key Product/Service**

Schema Reading

**Industry**

Intelligent Agents

**Technology**

• Generative AI



[goodnwise.com](https://goodnwise.com)

# GOOD & WISE

## The Story of Good & Wise's Solution

Good & Wise has developed and operates Schema Reading, a generative AI learning program designed to enhance students' reading comprehension in the Korean Language (non-literary section) for the College Scholastic Ability Test (CSAT). In September 2024, the company launched "Schema Class," a version of the program equipped with LMS tailored for schools and academies, helping educators integrate AI-driven literacy learning into their classrooms.

Good & Wise's AI literacy tutor uses generative AI to facilitate interaction with learners. By integrating LLMs with existing databases, the platform provides standardized and reliable literacy learning content and services. By applying the extensive data accumulated from Daechi-dong and the admissions and academic consulting sectors, Good & Wise is now expanding the scope of its AI tutor beyond literacy to the field of educational consulting.

## Competitive Edge of Good & Wise

What sets Good & Wise apart is its ability to transform offline-based Daechi-dong education data into personalized online learning programs using AI and deep learning.

Currently, the company offers AI-powered admissions and academic consulting programs designed to assist education consultants. It is also preparing to launch "Daechi-dong Class," a platform that provides students and parents with access to an AI-powered university admissions consultant.

## Good & Wise's Growth and Future Outlook

Good & Wise believes that education does not need to be equal for everyone; rather, it should be viewed as an investment. Therefore, the company is developing AI-based solutions for educational settings with the goal to create an education consulting platform that makes the highest-quality educational content at the level of Daechi-dong easily accessible both domestically and internationally. As of October 2024, its solutions are being used in two schools in Korea, and its adoption is expanding in Daechi-dong academies, regional institutions, and other educational organizations.

The company also plans to upgrade its Schema Reading program to a classroom-based platform. In the future, it plans to extend its application to schools, public institutions, and Korean language learning for foreigners.

Intro Image of Good & Wise's "Schema Reading" (Source: Good & Wise)

**2. 수능 비문학 영역별 필수 개념 지도**

[2022학년도 수능 비문학에 출제된 경제 스키마 예시]

스키마란?  
스키마는 단순한 배경지식 암기가 아닌 '일반화'와 '추상화'를 통한 '개념의 지도'를 말합니다.

스키마 학습으로 개념의 체계를 제대로 잡아야  
빠르고 정확한 독해가 가능해집니다.



Fashion AI that Handles Everything  
from Design to Model

**StyleAI**

StyleAI offers AI-driven services for fashion design assistance with virtual fashion models.

The company was founded in June 2020.

It has attracted KRW 900 million in seed funding.

**Company Name**

StyleAI

**CEO**

Hajeong Baek

**Key Product/Service**

StyleAI

**Industry**

Intelligent Agents

**Technology**

• Generative AI



[styleai.io](https://styleai.io)



## "StyleAI": AI-Generated Fit Models Without Real Human Models

StyleAI, the company's core service, uses AI to generate fit model images directly from clothing product photos. With this technology, online sellers can create model images without hiring actual models. The AI analyzes the length and fit of the garment to generate appropriate model images. The model's appearance, including ethnicity, age, facial features, and hairstyle, can be customized using the "My Model" service.

StyleAI also offers an AI-powered design assistant to support clothing design itself. It streamlines the design planning process and helps users quickly create mood boards and develop design prototypes with ease.

## Complete Customization from Appearance to Design

Other virtual fitting services rely on 3D modeling to dress avatars. Meanwhile, StyleAI uses product image data combined with virtual fitting technology to provide content five times faster than conventional methods. What sets StyleAI apart is that it can recommend products that best suit consumers with its combination of fashion trend data and algorithm-driven styling expertise.

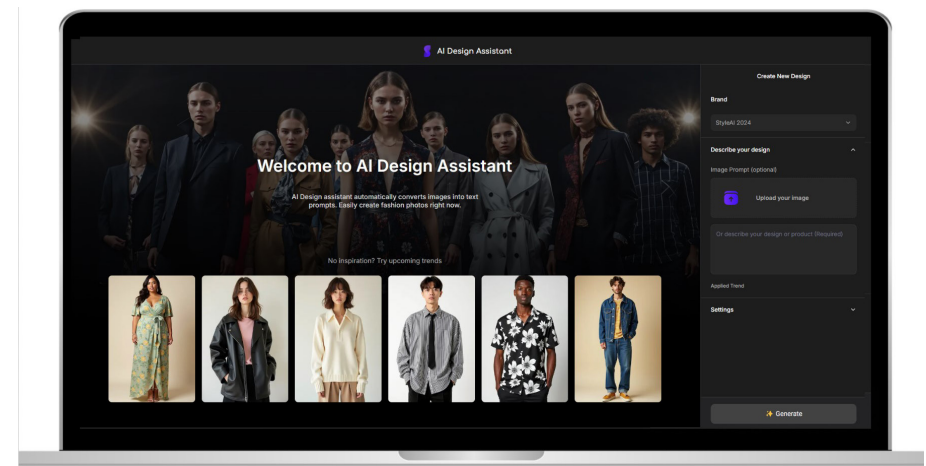
The AI Design Assistant uses machine learning to automatically generate fashion designs based on user preferences. Users can provide brand imagery, patterns, and colors, and the AI integrates real-time market data to produce realistic and trendy designs. This is particularly popular among OEM and ODM manufacturers during their product development process.

## StyleAI's Growth and Future Outlook

In March 2023, StyleAI was selected for the Tech Incubator Program for Startups (TIPS) and established its corporate research lab at Seoul AI Hub.

The company recently introduced a model replacement service for brands to swap out faces and models when a fit model's portrait rights expire. StyleAI plans on expanding its AI fit model image and video creation solution and offers innovative generative AI services in fashion, beauty and accessories.

Intro Image of "StyleAI," an AI-Powered Virtual Fashion Model and Design Assistant  
(Source: StyleAI)



Creating Immersive AI Virtual Avatars to  
Interact with Fans

**Vdigm**

Vdigm, founded in May 2020, has secured seed funding from VentureSquare and KOCP in 2022.

The company developed a 3D avatar-based AI NPC and agent service designed to enhance the interactions between virtual streamers and fandom.

**Company Name**

Vdigm

**CEO**

Youngwan Kim

**Key Product/Service**

TIH

**Industry**

Intelligent Agents

**Technology**

- Computer Vision
- Generative AI
- AI Tools & Platforms
- Visual Intelligence
- Speech & Language Intelligence



[vdigm.com](https://vdigm.com)



## AI-Driven All-in-One Service for Virtual Streamers

Vdigm is set to launch the “Tomorrow, In Here (TIH)” service for streamers in December, which is a comprehensive platform that integrates generative AI and reactive AI solutions with virtual stage AI and deep-real technology. This service makes it easy for anyone to create and use 3D avatars.

Vdigm's TIH service uses AI technology that transforms 2D images into fully animated 3D avatars along with a webcam to implement natural full 3D motion tracking of facial expressions and movements, resulting in "interactive AI avatars." It also incorporates "Virtual Stage AI" technology, which makes it easy for users to create various virtual spaces and 3D backgrounds.

Vdigm makes 3D virtual experiences accessible to everyone without high costs. Unlike conventional motion tracking setups that require expensive equipment, the TIH service provides full 3D motion tracking using nothing more than a smartphone camera or webcam.

## Competitive Edge of Vdigm

Vdigm is dedicated to elevating virtual interactions with cutting-edge technology for both streamers and fans. The company facilitates seamless integration with popular live streaming platforms, including Twitch, Chzzk, SOOP, as well as YouTube, TikTok, and Instagram Reels. One of TIH's standout features is AI NPC, which enables streamers to remain connected with fans even when they are offline by providing a lifelike avatar that has learned the streamer's persona and content style, created by AI within a 3D virtual space for ongoing fan engagement.

For streamers with existing content and broadcasting experience, TIH enables them to generate an AI NPC version of their 3D avatar for natural fan interactions.

## Vdigm's Growth and Future Outlook

This AI NPC learns the speech patterns and behaviors of streamers so that it can act as an AI agent that continues to interact with fans even when streamers are offline.

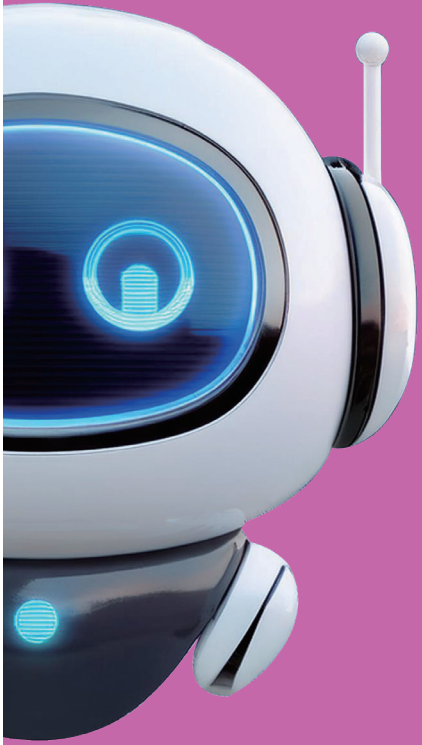
Vdigm has been providing its generative AI-based 3D avatar generation solution to clients for highly immersive virtual experiences since 2021. The company is broadening its customer base after being chosen for the AI Voucher Support Program. It was selected for the "Tech Incubator Program for Startups (TIPS)" by the Ministry of SMEs and Startups in 2022. In March 2023, Vdigm joined the Seoul AI Hub and relocated its R&D center to Yangjae.

Vdigm is now working to secure Series A funding in preparation for the global launch of its TIH service in 2025. To break into the North American market, it is implementing a strategic move, including a Kickstarter campaign, digital marketing, and influencer partnerships. It is also exploring ways to create an entirely new media experience by applying TIH technology to webtoons and web novels.

Image of Vdigm's Deep Learning-Based 3D Avatar Generation Platform "TIH"  
(Source: Vdigm)



# ROBOTICS



## AI Startups from Seoul AI Hub

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Macroact

Starpickers

Wave Lifestyle Tech

A 24/7 Elderly Care Platform Using  
Autonomous Robots

## Macroact

Macroact is a developer of AI-powered 24/7 elderly care platform  
"Mailife" and smart home robot "Maicat."  
The company was founded in May 2019.  
It is currently preparing to secure a KRW 3 billion Pre-Series A investment.

**Company Name**

Macroact

**CEO**

Euihyuk Kang

**Key Product/Service**

Mailife

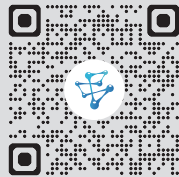
Maicat

**Industry**

Robotics

**Technology**

- Computer Vision
- Robots & Autonomous Systems
- AI Tools & Platforms
- Reinforcement Learning



[macroact.com](http://macroact.com)



**MACROACT**  
AI TECHNOLOGY

### "Mailife," an Elderly Care Platform and "Maicat," a Robotic Companion Cat

Mailife is an AI-integrated home care platform that works with autonomous indoor robots. Using the robots' built-in sensors, it tracks activity levels, monitors food and medication intake, and measures indoor temperature and humidity to send real-time updates to the connected app.

With AI-driven recognition, it can detect changes in the environment such as doors opening, identify emergency situations such as falls, and automatically alerts designated guardians in emergency situations. This helps older adults maintain independent living while also assisting care facilities and support workers in providing better care.

Macroact has also developed its own AI-powered robots. Maicat, an autonomous robotic cat, is equipped with an ultra-compact computer, camera, and microphone to monitor its owner and surroundings, detect unusual situations and send alerts when needed. With GPT-powered voice interaction, it also provides emotional companionship to help reduce loneliness.

### A 24/7 Care Solution without Blind Spots or Privacy Concerns

Existing IoT devices are fixed to doors, windows, or specific locations, which can increase power consumption and create monitoring blind spots. Macroact's solution solves this by using a mobile robot to ensure comprehensive coverage with a single device.

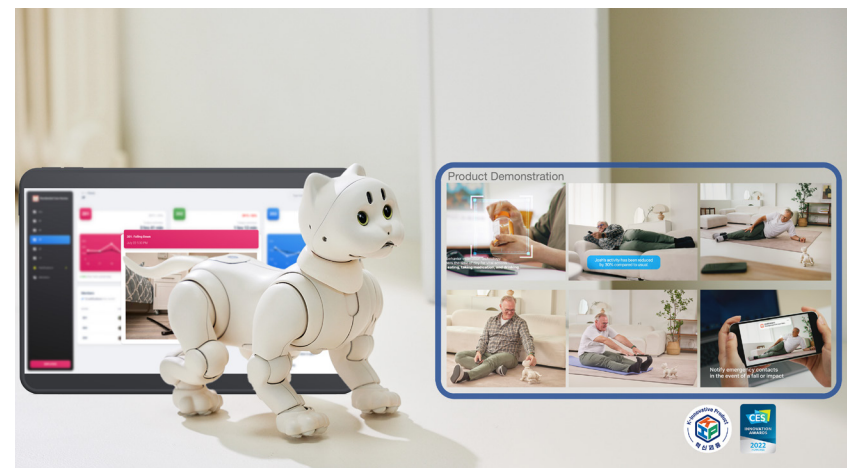
Maicat was designed as a companion that blends AI technology with pet-like characteristics, offering constant care without compromising user privacy.

### Macroact's Growth and Future Outlook

In 2024, Macroact signed a KRW 12.9 billion third-party unit rate contract for Maicat with the Public Procurement Service. The company aims to expand its B2G market in smart home products and solutions while securing a G-PASS certification (granted to very promising companies looking to expand abroad) to enter the global market.

Macroact is also developing an SDK that will allow third-party IoT services to be integrated into Maicat. This SDK will enable anyone to create and upload services, similar to App Store. The goal is to establish a new IoT ecosystem where consumers can purchase services to fit their needs.

Macroact's AI-Powered Quadruped Robot "Maicat" (Source: Macroact)



IoT-Integrated Comprehensive Mobility  
Safety and Control Service

**Starpickers**

Starpickers provides "RIDER LOG," a mobility safety and traffic monitoring service  
powered by AIoT with built-in motion sensors.  
The company was founded in February 2020.

**Company Name**

Starpickers

**CEO**

Choojin Park, Gyeongmok Kim

**Key Product/Service**

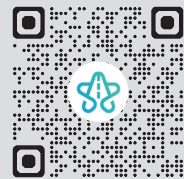
RIDER LOG

**Industry**

Robotics

**Technology**

- Data Analysis & Visualization
- Cloud & AI Infrastructure
- Robots & Autonomous Systems



[star-pickers.com](http://star-pickers.com)



**STAR PICKERS**



## "RIDER LOG": A Comprehensive Mobility Safety Solution

RIDER LOG is a comprehensive mobility safety solution developed by Starpickers launched in October 2023. It offers an AIoT-powered mobility safety and traffic monitoring service equipped with motion sensors. With its proprietary motion sensors and unique motion analysis technology, the system implements real-time accident detection through safety monitoring, which contributes to the development of safe smart cities. Users can easily install and manage IoT devices, monitor safety, and calculate safety scores from a single web platform.

Securing the accurate driving history data and safety score calculation help encourage safer driving habits. The platform can be expanded into various services, including financial services linked to the safety scores. It has already expanded its business model by integrating with financial services such as insurance, loans, and credit cards. Since its launch, both user adoption and revenue have been growing steadily.

## Competitive Edge of Starpickers

Starpickers stands out for its proprietary motion analysis technology, having independently developed and internalized every aspect of its service, including its own motion sensors, apps, servers, and AI cloud systems. Additionally, this technology has been recognized as the standard for the Korea Transportation Safety Authority's automated motorcycle accident rescue system and is now being applied to smart city initiatives for rural motorcycle accident response.

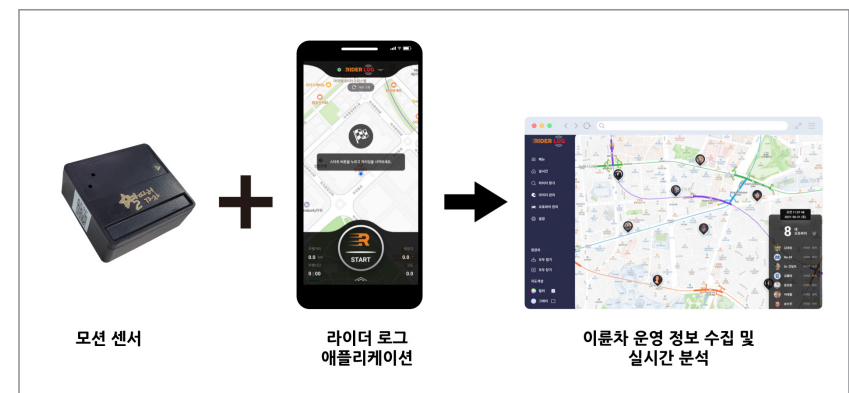
There is significant potential in both domestic government and corporate markets, as well as in international markets. In the domestic government sector, local governments and public institutions are expected to demand safety management solutions that deal with more than 5 million mobility devices, including electric scooters, agricultural machinery, and electric wheelchairs. In the corporate sector, the technology can be applied to manage more than 3.5 million corporate vehicles.

## Starpickers's Growth and Future Outlook

Starpickers has secured approximately KRW 1.5 billion in funding from LG Display, POSTECH, and Shinhan-HGIM. The company has also received multiple awards, including the D.Camp Demo Day Award in May 2020, Best Award at the Seoul Campus Town Festival 2020 in October, Outstanding Startup Award at the 2021 Weconomy Startup Challenge, and the Grand Prize at the second Shinhan Square Bridge Hero IR-Day in 2021.

Starpickers is setting its sights on making RIDER LOG a comprehensive vehicle management service. The company envisions building a mobility safety ecosystem by integrating with various insurance, financial, and convenience services, while expanding globally to enhance mobility safety and security worldwide. Its business model focuses on subscription and service fees through a comprehensive service package that combines various financial and partnership services to ensure profitability.

Implementation Process of the Comprehensive Mobility Safety Solution "RIDER LOG"  
(Source: Starpickers)



A Kitchen Robot That  
Cuts Labor Costs by 80%

## Wave Lifestyle Tech

Wave Lifestyle Tech (Wave) is a company specializing in automating restaurant operations with the development of cooking and ingredient-portioning robots. The company was founded in August 2018. It has secured KRW 9.85 billion in funding.

**Company Name**

Wave Lifestyle Tech

**CEO**

Beomjin Kim

**Key Product/Service**

NEXUS

**Industry**

Robotics

**Technology**

• Robots & Autonomous Systems



[wavehq.com](http://wavehq.com)



**"NEXUS":  
Kitchen Automation Robot  
based on AI Software**

Wave's flagship product, NEXUS, is an AI-powered kitchen robot designed for cooking and precise ingredient portioning. With end effector technology, the robot can recognize quantities and accurately measure ingredients while preparing virtually any type of dish, including stir-frying, frying, and grilling.

The "NEXUS HOT" model, which automates everything from precise portioning to heated cooking, can replace up to three kitchen workers per unit. It can automatically prepare up to 240 servings per hour, and Wave's solution can reduce kitchen labor costs by up to 80%.

**A Robot Chef That  
Combines Cooking and  
Precise Ingredient  
Portioning**

Unlike conventional cooking robots that only automate heated cooking, NEXUS integrates a built-in dispenser for precise ingredient portioning, which significantly increases automation efficiency per unit.

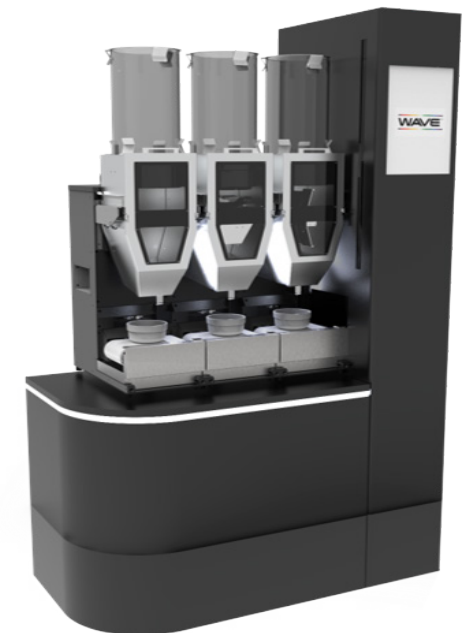
It operates like a skilled chef, powered by Wave's proprietary kitchen robot management software, "ROK-IS," and the Faraday 1 robot control semiconductor chip. With the ability to simultaneously control multiple robot modules in real time, it collects order data and executes fast, precise cooking without human intervention.

**Wave Lifestyle Tech's Growth and Future Outlook**

Wave successfully signed 10 new B2B contracts in 2024 and completed a PoC with Samsung Welstory's headquarters for the NEXUS product line. It is currently in discussions to expand NEXUS within Welstory and supply its robots to airports, highway rest stops, and other convenience facilities.

It is also expanding into international markets. It is in discussions with a Saudi real estate developer to bring robotic kitchens to resorts and office buildings in Saudi Arabia. It is also planning to introduce robotic kitchens in the corporate cafeterias of major U.S. tech companies.

It has expanded beyond kitchen automation and is applying its robotics technology to the food manufacturing industry. Its current projects include automating the egg crepe packaging line and the macaroni mixing process at Narae Agricultural Corporation as well as streamlining bakery production at SPC Pyeongtaek. It plans to launch automation services for the residential and healthcare sectors by 2029.



"NEXUS": Wave Lifestyle Tech's Dispenser Robot  
(Source: Wave Lifestyle Tech)

# MEET GALAXY AI



## AI Startups from Seoul AI Hub

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Deargen

DiaVision

Gloud

Monit

Prevenotics

the Little Cat

VIRTRIS

W.AI

Developing Novel Drugs by Predicting  
Compound Binding Using AI

**Deargen**

Deargen operates a platform for AI-driven novel drug discovery.  
The company, founded in December 2016, has secured more than  
KRW 27 billion in funding to date.

**Company Name**

Deargen

**CEO**

Gilsoo Kang

**Key Product/Service**

DearDTI

DearGLUE

**Industry**

Medical AI

**Technology**

• AI R&D



[deargen.me/en](https://deargen.me/en)

**DEAR EN**

## "DearDTI" for Predicting Protein-Compound Interactions and "DearGLUE" for Molecular Glues

Deargen's flagship platforms are Dear Drug-Target Interaction (DearDTI) and DearGLUE. DearDTI uses AI to predict interactions between proteins and compounds and optimize the identification of promising drug candidates. By analyzing the interactions between disease-causing target proteins and potential drug molecules, it helps filter out the most viable candidates in the early stages of drug development.

DearGLUE is an AI-assisted novel drug discovery platform that uses "molecular glue" technology to develop novel therapeutics for previously undruggable targets. Molecular glues promote protein-protein interactions and induce the targeted degradation of specific proteins and are a novel approach to drug discovery.

## AI-Powered Drug Discovery: Reducing Time and Costs in the Entire Process

Deargen integrates AI technology in every stage of drug development from predicting protein-compound interactions to designing molecular glues and optimizing drug candidates. By accelerating the identification and validation of promising drug candidates, the platform enables faster and more efficient drug discovery, even for hard-to-target diseases. This AI-driven approach streamlines the entire drug development process, significantly reducing both time and costs.

In addition, AI-powered drug discovery enables rapid adaptation to market changes and the fast commercialization of new treatments. For example, during the COVID-19 pandemic, Deargen's AI transformer

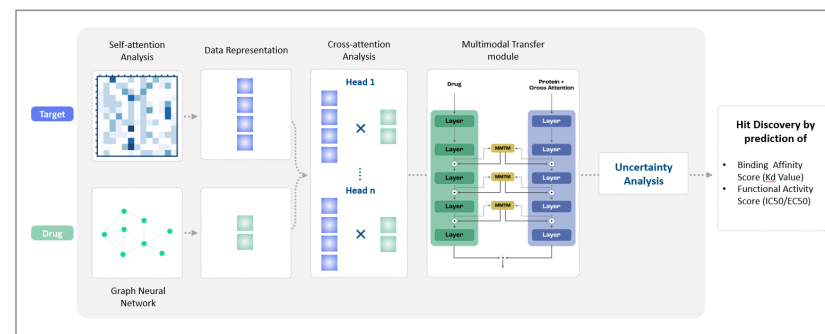
## Deargen's Growth and Future Outlook

technology was the first to identify Remdesivir as a potential treatment. Deargen is also using AI in the cosmetics industry to identify beneficial skincare ingredients and speed up new product development.

Deargen is currently conducting research in government-funded projects worth KRW 2 billion and collaborating with organizations such as the Korea Food Research Institute and the National Police Agency. The company has also formed partnerships with Serengen (Germany) and LG Household & Health Care and is working together on new drug and cosmetic development.

Looking ahead, Deargen plans to upgrade its AI-powered molecular glue drug discovery platform and expand its services. It is focusing on developing AI tools for drug discovery targeting diseases with no existing treatments while also expanding the development of innovative cosmetic ingredients.

"DearDTI" Process: AI Technology for Predicting Protein-Compound Interactions  
(Source: Deargen)



Disease Analysis and Management Using  
Personal Biometric Data Measured and  
Collected from Smartphones

## DiaVision

DiaVision is a company specializing in digital healthcare founded  
by biotech and software experts from Samsung Electronics.  
The company was established in October 2021 after being spun off  
from Samsung Electronics' in-house venture program,  
C-Lab. It has since secured KRW 1.12 billion in funding.

**Company Name**

DiaVision

**CEO**

Seokyong Lee

**Key Product/Service**

Smart Vision

Digital Vaccine

**Industry**

Medical AI

**Technology**

- Computer Vision
- Data Analysis & Visualization
- AI Tools & Platforms
- Machine Learning



[diavision.co.kr](http://diavision.co.kr)



## Analyze Biometric Data at Home with "Smart Vision" and Manage Health with "Digital Vaccine"

DiaVision develops Smart Vision, an AI-powered smartphone-based rapid test analyzer, and Digital Vaccine, a solution for managing disease risk.

Smart Vision uses AI-driven quantitative analysis, advanced digital image processing, and data augmentation techniques to recognize and analyze images from various rapid diagnostic kits. With this technology, users can measure biomarkers at home or in the field and integrate the results with personal health records and life-logging data for comprehensive analysis. Digital Vaccine then uses Smart Vision's analysis to predict potential health risks and provide preventive care solutions.

## Democratization of Home Testing Without the Need for Extra Testing Devices

DiaVision has successfully transformed quantitative analysis into a fully mobile solution, eliminating the need for traditional small testing devices. While similar technologies are under development in the United States, Germany, and the UK, DiaVision has a technological edge, having started R&D in Samsung Electronics as early as 2010.

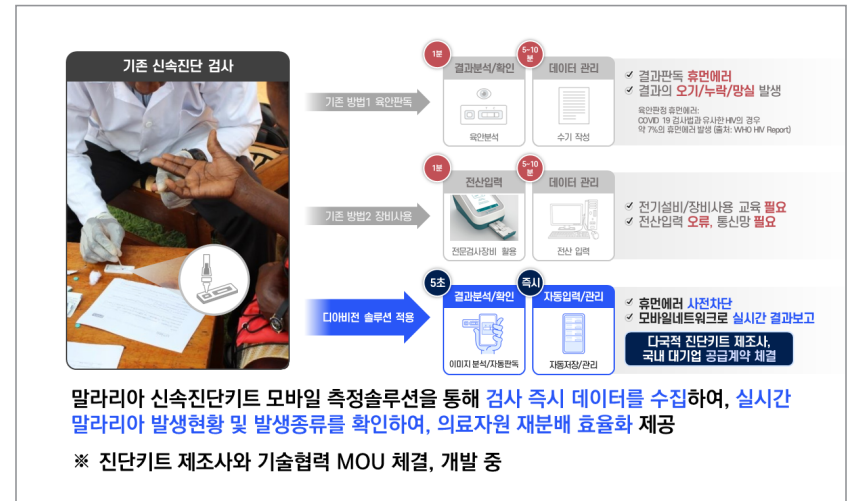
Unlike other mobile solutions that require additional accessories, Smart Vision can perform testing and analysis using only a smartphone. It can operate in various environments thanks to advanced compensation technology, and overcome the limited testing conditions that other mobile solutions often require. By integrating Digital Vaccine, a solution for disease prediction and prevention, DiaVision has further strengthened its market competitiveness.

## DiaVision's Growth and Future Outlook

DiaVision has successfully partially commercialized Smart Vision and signed supply agreements with major domestic corporations and a U.S. diagnostic kit manufacturer. The company is also working toward finalizing the development of Digital Vaccine.

DiaVision plans to launch a vitamin D measurement solution and a digital ovulation and pregnancy diagnostic solution by the end of 2024. With these tools, users can monitor their vitamin D levels, track the effectiveness of supplements and conduct at-home hormone tests to support family planning. With the launch of its B2C service in 2025, DiaVision aims to raise Series A funding to further scale its operations.

DiaVision's Smart Diagnostic Kit (Source: DiaVision)





AI-Powered Oral Data Analysis to  
Manufacture Prosthetics

**Gloud**

Gloud provides "JustScan," a dental prosthetics ordering, manufacturing, and management solution through a Software as a Service (SaaS) system.

The company, founded in September 2020, is currently raising Series A funding of approximately KRW 8 to 10 billion (as of September 2024).

**Company Name**

Gloud

**CEO**

Jinwoo Ji

**Key Product/Service**

JustScan

**Industry**

Medical AI

**Technology**

• Digital Dentistry



gloud.io

gloud

### "JustScan": Uploading Oral Data to SaaS and Printing Prosthetics with a 3D Printer

JustScan is a service that allows dental staff to order and produce custom prosthetics quickly using an oral scanner without the need for specialized personnel. When a patient's oral data is uploaded to Gloud's SaaS system, partner manufacturers use AI to design the prosthetic. The completed design is then sent back to the clinic, where it can be directly 3D printed on-site.

### From Dental Treatment to Prosthetics Placement in One Hour with No Revisit Needed

JustScan automates the time-consuming process of temporary tooth and inlay fabrication, significantly reducing treatment time. With this innovation, even patients who cannot return for follow-up visits can complete their entire treatment from diagnosis to prosthetic placement within an hour. The entire process can be done online. It minimizes reliance on medical professionals and challenges the current labor-intensive structure of the dental industry.

It has also developed its own affordable 3D printers and designed an intuitive UX/UI tailored for dentists and dental technicians that makes the service more accessible and user friendly.

### Gloud's Growth and Future Outlook

Since its founding, Gloud has been recognized as a 2023 Tech Incubator Program for Startups (TIPS) company and has partnered with Chosun University, Yonsei University, and other academic institutions. Currently, its 3D printer usage is growing by an average of 38% per month, and its paid customer base has expanded to around 40 clinics, with steady growth.

It is also improving its 3D printing technology and expects to launch a commercial AI-powered automated prosthetic design tool by 2025. In the future, it plans to cut in-clinic dental solution processing time to under 30 minutes.

Building on this momentum, Gloud is also setting its sights on global expansion. The company plans to establish a local subsidiary in Vietnam by 2025 and participate in international exhibitions in Dubai, New York, and other key markets.

3D Printer for Printing Prosthetics  
from Oral Data  
(Source: Gloud)



Caring for All Ages from Infants to  
the Elderly with Technology

**Monit**

Monit, a digital healthcare company, provides comprehensive solutions that support the life journey of people from infants to the elderly. The company is currently developing and supplying diaper monitoring technology. MONIT, founded in April 2017, has raised KRW 4 billion in Series A funding to date.

**Company Name**

Monit

**CEO**

Dohyung Park

**Key Product/Service**

MECS PRO

**Industry**

Medical AI

**Technology**

- Data Analysis & Visualization
- Robots & Autonomous Systems



[monitcorp.com](http://monitcorp.com)



## The Story of Monit's Solution

Monit has developed and is operating a diaper monitoring system for both infants and the elderly. For infants, the product lineup includes the infant diaper care system, MONIT Smart Feeding, and hip seats. For the elderly, Monit offers the MECS diaper care system and plans to launch a facility-based diaper care system in the second half of 2024.

Monit's MECS PRO diaper monitoring system is designed to reduce the caregiving burden for the elderly and address medical and human rights issues. The system uses high-precision multi-sensors to accurately detect the contamination level of diapers in real time. The detected data is immediately transmitted to caregivers, eliminating the need for having to check diapers unnecessarily.

This helps maintain the health of elderly patients and reduces the risk of complications, such as pressure sores. Currently, the platform and its effectiveness are being tested at institutions such as Catholic University Hospital, Dankook University Hospital, and On-nuri Nursing Center.

## Competitive Edge of Monit

Monit's diaper monitoring system can be used with regular diapers, so there is no need to switch to special ones. This makes it both cost-effective and easy to adopt. It's also very simple to use. While it is designed to work in a Wi-Fi environment, it can be used right away, even in overseas nursing facilities where Wi-Fi may be unstable, by just turning on the switch with no special network connection required.

The design is thoughtfully created with the user in mind. The sensing strap is ultra-thin and narrow so that it doesn't cause discomfort when attached. Also, it is designed to cover the entire area of the diaper that comes into contact with waste to increase its sensing range.

## Monit's Growth and Future Outlook

Monit focuses on providing innovative technologies and services that address the various challenges and needs people encounter throughout their lives. Its mission is to be a trusted partner and help everyone live a better life from beginning to end.

Monit has been selected for the Seoul Testbed Demonstration Project, run by the Seoul Business Agency, and is currently researching and developing its main toilet robot at the Seocho-gu Senior Care Center in Seoul. In 2026, the company plans to launch the "AI Toilet Robot (preliminary name)," which will use AI to predict excretion needs and feature an automatic transformation bed. The technology combines AI and a toilet system with a patient bed to predict when the patient needs to use the bathroom. When the need is detected, the bed transforms into a toilet.

Monit is increasing its exclusive overseas supply agreements, primarily for the MECS PRO, and plans to develop products tailored to international markets while launching a B2C overseas market in the near future.



"MECS PRO" by Monit  
(Source: Monit)

AI-Assisted Cancer Prevention  
and Management

## Prevenotics

Prevenotics develops AI software to assist with cancer prevention and diagnosis.

The company was founded in July 2021.

It has raised seed investments from Kakao Ventures and the US-based VC 500 Global.

It is currently in the process of securing Pre-Series A funding.

### Company Name

Prevenotics

### CEO

Sooyeon Jang

### Key Product/Service

PrevenoG

Venotics-G

Prevenotics-G

### Industry

Medical AI

### Technology

- Computer Vision
- Generative AI
- Data Analysis & Visualization
- Cloud & AI Infrastructure
- AI R&D
- Visual Intelligence
- Machine Learning



[prevenotics.co.kr](https://prevenotics.co.kr)



## The Story of Prevenotics' Solution

Prevenotics offers an AI software solution that supports real-time diagnosis for the prevention of stomach cancer. The goal of this solution is to improve survival rates and quality of life while reducing healthcare costs by preventing high-risk patients from developing severe stomach cancer.

It provides comprehensive, real-time simultaneous diagnosis from the precancerous stage to cancer, along with a multi-modal AI system for personalized monitoring and optimal prevention. As of 2024, two of its software medical device AI solutions, which have received Class 2 certification from the Ministry of Food and Drug Safety, are being tested in clinical and pilot studies at major hospitals in South Korea, including Seoul National University Hospital, the National Medical Center, and Busan Good Hospital (Eunseong Medical Foundation), where they are used for endoscopic screening and diagnosis.

## Competitive Edge of Prevenotics

Prevenotics focuses on all precancerous conditions and cancer and operates a software medical device designed for simultaneous, real-time, AI-based diagnosis of multiple diseases, with a focus on "stomach cancer prevention."

The device is built with UIs and workflow that cater to both medical professionals and patients, so that patients can easily and accurately understand prevention-related information.

The company is also working on improving the user experience while highlighting the importance of cancer prevention. By providing standardized access to imaging data, the software offers seamless integration with patient-driven healthcare and non-medical businesses and lays the foundation for a more integrated and effective cancer prevention solution.

## Prevenotics' Growth and Future Outlook

Prevenotics is focused on improving patient access to medical devices in South Korea to drive initial sales, and plans global expansion following US FDA approval. To improve the "customized prevention" feature based on "diagnostics," the company is continuously upgrading its user-friendly, personalized consultation and tracking/prevention software. At the same time, it is actively advancing AI development for gastrointestinal cancers.

It plans to establish a system that seamlessly delivers standardized prevention data to patients. This will strengthen its competitiveness in the market and enable the company to provide an effective, location-independent prevention solution globally with the goal of completely blocking the transition to severe cancer.

In the long term, Prevenotics aims to revolutionize cancer prevention with AI-based precancerous diagnostic technology and make a life-saving impact. Based on personalized gastrointestinal cancer imaging data, the company aspires to become a global healthcare service provider that actively contributes to cancer prevention. Prevenotics is dedicated to helping every patient live a life free from the pain and threat of cancer.

Image of Prevenotics' Service (Source: Prevenotics)



Improving Pet Health and  
Welfare Using Data

## the Little Cat

the Little Cat uses IoT, big data, and AI technologies to collect, monitor and analyze data on the daily lives and health conditions of pets and offers a range of smart products and services.

The company, founded in September 2018, has secured a total of KRW 300 million in funding. It is currently in the process of raising Pre-Series A investment.

### Company Name

the Little Cat

### CEO

Daeyong Kim

### Key Product/Service

INPET

### Industry

Medical AI

### Technology

- Generative AI
- Data Analysis & Visualization
- AI Tools & Platforms
- AI R&D
- Reinforcement Learning
- Machine Learning



[thelittlecat.kr](http://thelittlecat.kr)



## The Story of the Little Cat's Solution

the Little Cat's INPET is a body composition measurement device designed to create a wellness-focused environment where cats can eat, play, rest, and stay healthy in their home. When a cat's paws touch the sensor plate, the device uses bioelectrical impedance analysis (BIA) to measure eight key biometric indicators, including weight, BMI, body fat, visceral fat, body water, protein levels, bone density, and muscle mass. The collected body composition data is then analyzed by AI algorithms and provided through a dedicated smartphone app as a comprehensive health monitoring service for pet owners.

In addition to INPET, the Little Cat has introduced "B612 Cat Planet," an IoT-powered smart cat wheel designed to track and manage feline activity levels. As a cat runs on the wheel, the device measures exercise data and helps pet owners monitor and maintain their cat's overall health. the Little Cat also offers "MEDISAND" (smart cat litter) and "MEDIPAD" (smart dog pee pads), which analyze urine to assess kidney health so that pet owners can detect potential issues early and take timely action.

## Competitive Edge of the Little Cat

the Little Cat's flagship product, INPET, uses BIA technology to accurately and easily measure key biometric data at home at a low cost. By analyzing the collected data with AI algorithms, INPET provides a comprehensive health management service through a dedicated smartphone app, further strengthening its value proposition.

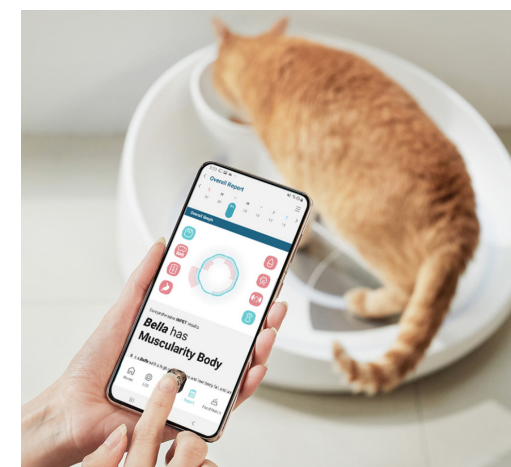
Services include appetite-controlling lighting with "Diet LED," a "Daily Health Briefing" delivered by voice, "Personalized Healthcare Reports" based on body composition, "Recommended Food and Feeding Amounts" calculated based on nutritional needs

## the Little Cat's Growth and Future Outlook

and a "Health and Growth Journal" recorded as data. These various services set the Little Cat apart from its competitors.

Since its founding, the Little Cat has expanded its global footprint by exporting products such as the IoT smart cat wheel and MEDISAND to nine countries, including the United States, Thailand, New Zealand, UAE, Japan, and Poland. The company is also preparing collaborations with companies in the United States, China, and France.

the Little Cat aims to improve pet health and welfare with data-driven technology and establish leadership in the global market. To achieve this, the company is focusing on developing a platform that can systematically manage pet life. the Little Cat's goal is to achieve sustained revenue growth over the next 5 years.



Interface of "INPET,"  
the Little Cat's Body Composition  
Measurement Solution for Cats  
(Source: the Little Cat)



Development of Novel Drugs with  
Multi-Omics Data Analysis

**VIRTRIS**

VIRTRIS has developed the "Pan-Omics" data analysis platform to offer customized novel drug development services to pharmaceutical companies.

VIRTRIS, founded in March 2021, has raised KRW 500 million in seed funding to date.

**Company Name**

VIRTRIS

**CEO**

Yunseok Hong

**Key Product/Service**

Pan-Omics

**Industry**

Medical AI

**Technology**

• Data Analysis & Visualization



virtris.com



## "Pan-Omics," Supporting Novel Drug Development with Multi-Omics Biological Analysis

VIRTRIS' flagship service, Pan-Omics, is a platform that integrates and analyzes various omics data, including genomics, metabolomics, transcriptomics, and proteomics. By analyzing omics data based on precision medicine, it helps pharmaceutical companies in their drug development efforts.

The Pan-Omics analysis platform optimizes patient selection criteria by discovering diagnostic biomarkers for target drugs with genomics-based modeling analysis. It also increases the potential for treating new diseases and identifies new treatment routes for existing ones. In the clinical phase, it provides drug resistance mechanism discovery services by exploring changes in key genes and signaling pathways following drug treatment in cell and animal models.

## Integrating Independent Omics for More Effective Cancer Drug Development

Other single-omics analyses, such as DNA analysis, provide information at only one molecular level, limiting the insights it can offer. On the other hand, Pan-Omics combines multiple omics data to provide more detailed and diverse information.

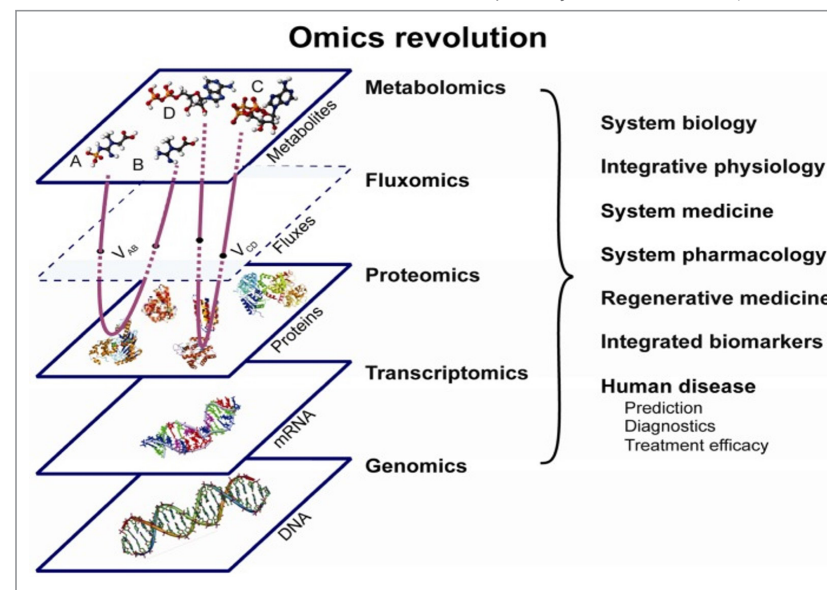
By integrating independent layers of data in a comprehensive way, it helps clarify biological mechanisms and allows the detection of changes at the cause stage, even before the results are seen. This approach provides valuable insights for researching diseases caused by complex factors such as cancer. The use of omics-based data early in the drug development process is also helpful to identify new compounds that target specific, high-potential indications.

## VIRTRIS's Growth and Future Outlook

In 2022, VIRTRIS partnered with CellabMED for a new cancer-targeted therapy, and it signed a Pan-Omics data analysis agreement with GI Innovation in the first half of 2023 for an immuno-oncology drug currently in development, with plans to release it in October 2024. In January 2024, the company was selected for the "U-TECH Valley" project, sponsored by the Korea Technology Finance Corporation.

VIRTRIS plans to expand its services using its platform to help pharmaceutical companies such as CellabMED and GI Innovation discover new targets and expand indications. The company is also looking to collaborate with pharma companies on joint compound development based on shared intellectual property.

Structure of "Pan-Omics," an Analysis Service from VIRTRIS (Source: VIRTRIS)



AI Solution for Diagnosing Breast Implants  
Using Ultrasound Imaging

W.AI

W.AI, founded in February 2023, is a company that provides medical diagnostic AI solutions.

The company develops AI-powered diagnostic solutions for breast implants that use ultrasound imaging and deep learning technology.

W.AI has secured KRW 500 million in seed funding from The Invention Lab and an additional KRW 300 million from doctors, developers and private investors.

In July 2024, it was selected for the TIPS program.

**Company Name**

W.AI

**CEO**

Jaehong Kim

**Key Product/Service**

W Expert

**Industry**

Medical AI

**Technology**

- AI Tools & Platforms
- AI R&D
- Machine Learning



w-ai.ai

w.ai

## The Story of W.AI's Solution

W Expert is an AI-powered diagnostic solution that analyzes ultrasound images to identify breast implants and detect potential complications. It provides a comprehensive AI-powered breast health service for radiologists and breast specialists and diagnoses implant-related conditions and complications in both patients with implants and the general female population.

Currently, the research version of W Expert is being used in more than 20 hospitals and clinics in South Korea.

## Competitive Edge of W.AI

W.AI's AI solution is built on a database of one million medical images and was developed by the company's CEO, a practicing breast surgeon, giving it great potential for commercialization in real-world clinical settings.

Since breast cancer is the most common cancer among women, accurate diagnosis of implant-related complications such as ruptures or capsular contraction is critical for patients with breast implants. W Expert is being developed in multiple versions to accommodate various hospital environments worldwide.

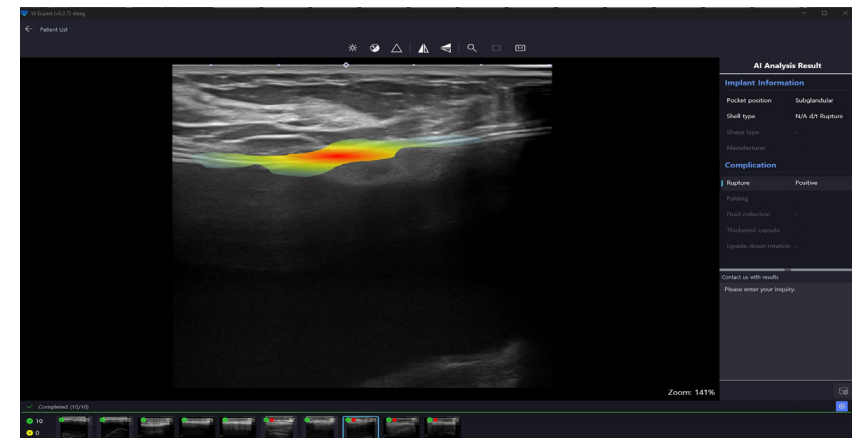
The solution supports local installation, cloud, SDK, and API integration, and also offers compatibility with various picture archiving and communication systems (PACS) for seamless medical imaging integration.

## W.AI's Growth and Future Outlook

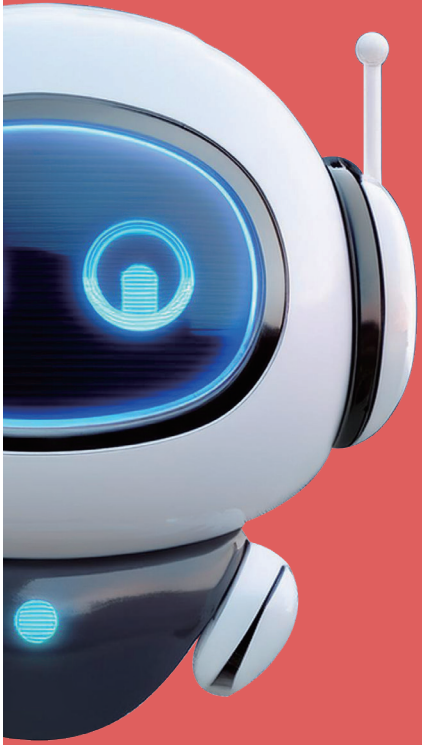
The research version of W Expert is currently in use at more than 20 breast surgery clinics in Seoul, Gyeonggi, Gwangju, and Daegu. W.AI has obtained venture certification in July 2023 and GMP certification in May 2024, and is now preparing for domestic and international regulatory approvals. Starting in late 2024, the company plans to expand its diagnostic capabilities beyond ultrasound imaging by developing a breast implant diagnostic solution using mammography (MMG) images. Once it receives regulatory approval, W.AI will first introduce its solution in domestic clinics, including radiology, breast surgery, plastic surgery, internal medicine, and obstetrics and gynecology practices, before expanding to breast screening centers worldwide.

W.AI is gearing up for a future where remote medical consultations and personal ultrasound devices become widely accessible. The company states that it has been anticipating technological shifts for the past decade and is now focused on preparing for the next 10 years. Revenue is expected to start in 2025 following regulatory approval from the Ministry of Food and Drug Safety (MFDS). After securing domestic and international regulatory approvals for its mammography (MMG) image-based breast implant rupture detection solution, it aims to reach annual sales of KRW 100 billion within three years.

Interface of "W Expert," an AI Solution for Breast Implant Identification and Complication Diagnosis Using Ultrasound Imaging (Source: W.AI)



# AI PROFESSORS



AI Startups from Seoul AI Hub

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AiM Future

AI Chip Solutions Tailored to  
Customer Needs

**AiM Future**

**AiM Future provides hardware for AI computing,  
specifically neural processing units (NPUs), as intellectual property (IP) assets.**

**The company was founded in October 2020.  
It secured KRW 5 billion in Series A funding in 2023.**

**Company Name**

AiM Future

**CEO**

Changsoo Kim

**Key Product/Service**

NeuroMosAIC Processor Series

NeuroMosAIC Studio SDK

**Industry**

AI Processors

**Technology**

- Computer Vision
- NLP
- Edge Computing
- AI R&D
- Machine Learning



aimfuture.ai

**AIM FUTURE**

## "NeuroMosAIC Processor Studio," AI-optimized Semiconductor NPU Design Assets

An NPU is a processor specialized for real-time, simultaneous computations, which makes it ideal for AI deep learning and inference tasks. AiM Future's core solution includes the NeuroMosAIC Processor, an NPU accelerator, and the NeuroMosAIC Studio, the software that powers it. NeuroMosAIC Studio is provided in an easy-to-use SDK for customers.

AiM Future's processor and software solutions offer AI chip IP that meets the performance, power consumption, and cost requirements of final applications ranging from low-performance devices to high-performance edge infrastructure capable of autonomous driving.

## Optimized NPU Chip Design for Various Applications

AiM Future's NeuroMosAIC technology offers great scalability and supports a wide range of application performance. It provides dynamic task reconfiguration without hardware changes, enabling multi-modal functionality. The chip area can be reduced as needed with flexibility in selecting the size of functional blocks in the NPU.

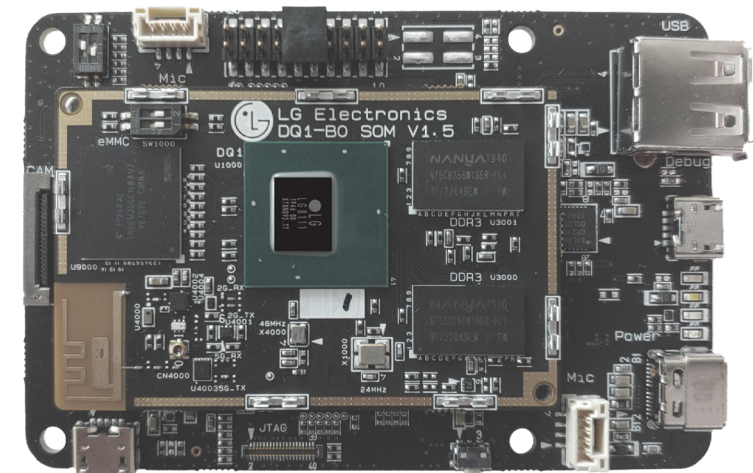
Customers can freely adjust the semiconductor power, performance, and area (PPA) settings, which makes it easy to design the optimal chip for each specific application. This results in quick integration of NPU into various applications such as washing machine motor control, refrigerator voice recognition, and facial recognition at door entrances.

## AiM Future's Growth and Future Outlook

AiM Future is currently expanding its focus in the NPU IP field. To grow in the home appliance market, the company is collaborating with LG Electronics to turn chips for upgradable appliances into validated IP. In the smart home sector, AiM Future plans to boost its competitiveness as a fabless company by designing system-on-chip (SoC) chips for AI models that detect anomalies.

At present, AiM Future is working on a solution to run generative AI applications on-device with its next-generation NPU architecture, GAIA. To make this happen, the company is partnering with the semiconductor design house ASICLAND to create multi-project wafer chips with the goal of completing silicon verification by March 2025.

NPU Hardware of AiM Future (Source: AiM Future)



## SEOUL AI STARTUP 100

SEOUL AI STARTUP 100

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<b>Printed on</b>	December 2, 2024
<b>Published on</b>	December 10, 2024
<b>Published by</b>	Seoul AI Hub
<b>Address</b>	108, Taebong-ro, Seocho-gu, Seoul, South Korea
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