

# Company Introduction

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**AI can make the world a better place**

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# 01

## Company Introduction

- 1) Konan Technology
- 2) Clients
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- 5) Organizational Chart

# Konan Technology

Konan Technology is a company specializing in Artificial Intelligence software.

We have secured the original AI technologies that are not open source.

Please pay attention to Konan Technology, leading AI business through

“Human-like AIs that see, hear, understand, and speak.”



<b>Company Name</b>	Konan Technology Inc.
<b>CEO</b>	Young Sum Kim
<b>Date of Establishment</b>	April 1999
<b>Core Technologies</b>	Generative AI, Text AI, Vision AI, Digital Twin
<b>Key Products</b>	LLM, RAG-X, AI PC/Server, AI Search/Analytics/Chatbot, AI Video/Speech Processing, AI Pilot, PHM
<b>Number of Employees</b>	213 (as of 2025.7.)
<b>Address</b>	327, Gangnam-daero, Seocho-gu, Seoul
<b>Corporate Type</b>	KOSDAQ-Listed Company

# Clients

Konan Technology has served over 2,900 clients across industries—from Hyundai Motor, Samsung Electronics, and SK Telecom to public institutions, financial firms, and media organizations—based on over 25 years of technical expertise and trusted partnerships.

2,900 + Clients

3,400 + Projects

## Enterprise



## Public



## Commerce



## Finance



## Media



## Education



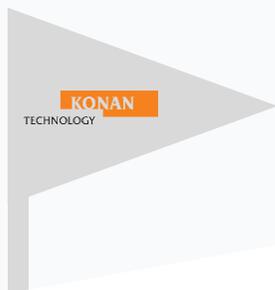
# Key Products

Konan Technology offers a wide range of solutions based on its proprietary technologies across 5 key domains: Generative AI, Text AI, Vision AI, Digital Twin, and Foundation Technologies.

Generative AI	Text AI	Vision AI	Digital Twin	
<p><b>Konan LLM</b> Proprietary Generative AI</p> <p><b>Konan RAG-X</b> AI Answers from All Data</p> <p><b>Konan AIStation</b> Custom AI PC with My Docs</p> <p><b>Konan AIStation Server</b> GenAI Server for Teamwork</p>	<p><b>Konan Search</b> Vector Search with GenAI</p> <p><b>Konan Analytics</b> Make Better Decisions</p> <p><b>Konan Chatbot</b> Boost CX</p> <p><b>Konan Chatbot<sup>Plus</sup></b> AI Interpretation</p> <p><b>pulsek</b> Capture Business Signal</p>	<p><b>Konan Watcher</b> Video Understanding AI</p> <p><b>Konan Listener</b> Speech Understanding AI</p> <p><b>Konan Voice</b> Realistic AI Voice</p>	<p><b>Konan PHM</b> Predictive Maintenance</p> <p><b>Konan AI Pilot</b> A Flight to a Better World</p> <p><b>Foundation (핵심기반기술)</b></p> <p><b>Konan MLOps</b> Scalable and Reliable ML</p> <p><b>Konan DT Framework</b> Digital Twin Development Framework</p> <p><b>dtrain</b> Konan AI Framework</p> <p><b>Konan Language</b> Programming Language</p>	

# History

Konan Technology has been building unstructured big data analysis and AI technology for the past 24 years. For the next 10 years, we will write a history of leading the AI industry as an AI-specialized company that understands and services all image, voice and text.



## Establishment

- 2009 · Adopted Image search engine on Nate Portal
- 2007 · Provides integrated search for Nate and Cyworld
- 2006 · Strategic alliance with SK Communications
- 2005 · Established Konan Digital Inc., foreign corporation
- 2004 · Launched 'Konan Digital Arc' based SBS Digital News
- 2001 · Konan image search technology adopted as MPEG7 international standard
- 1999 · Established Konan Technology Ltd.

## Growth

- 2019 · Business Agreement on AI-based Services with SK Broadband Content Platform
- 2018 · Launched AI-enhanced products ('Konan Search 5, etc.)  
· 'Konan Search 5', 'Konan Bot' GS Certification  
· Completed automatically generated subtitle project for Korea National Open University
- 2017 · Started applying AI technology to commercial products  
· 'Konan Analytics 4' GS Certification  
· Launched voice recognition technology product 'Konan Listener'  
· Collected and calibrated data for video understanding  
· Developed automated system(VTT)
- 2016 · SP(Software Process) Certification Grade 2
- 2015 · 'Konan Media Arc' GS Certification
- 2012 · Opened social analysis platform 'pulseK'
- 2011 · Launched start TV search platform 'Interactive Semantic'

## Acceleration

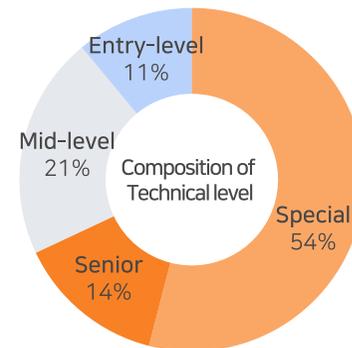
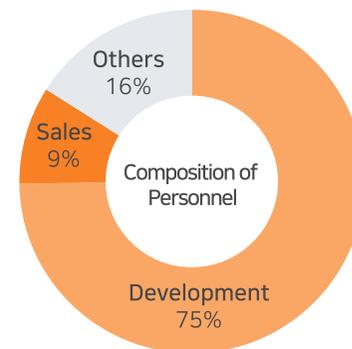
- 2025 · Secured Gyeonggi-do Generative AI Platform contract  
· Launched Konan LLM ENT-11 & RAG-X  
· Built Korea's first medical LLM platform with HUMC-Hallym  
· Top 100 Emerging AI+X company for 5 years
- 2024 · Signed a contract with KOEN to build and train a generative AI system  
· Received the Minister's Award at the Korea AI Industry Awards (MSIT)
- 2023 · Selected for Defense Innovation 100 (2nd round)  
· Launch of the large language model, 'Konan LLM'  
· Awarded a KRW 5.1 billion contract for building the Ministry of National Defense's intelligent platform
- 2022 · Listed on KOSDAQ (402030)  
· Signed an MOU with KAI to enhance AI-driven aerospace technologies
- 2021 · Received Ministerial Commendation for excellence in data openness and distribution (MSIT)  
· Developed a proprietary deep learning framework (100% in-house technology)  
· Selected as a model case of proactive public service by the Ministry of Personnel Management
- 2020 · Introduction of AI Testing Guidelines  
· Selected as best practice for SP certification

# Organizational Chart

Konan Technology is an organization composed of artificial intelligence software experts.



\*1.BC Dept =Bigdata Convergence Dept, 2.DS Dept =Data Science Dept



\*As of 2025.7, 213 people

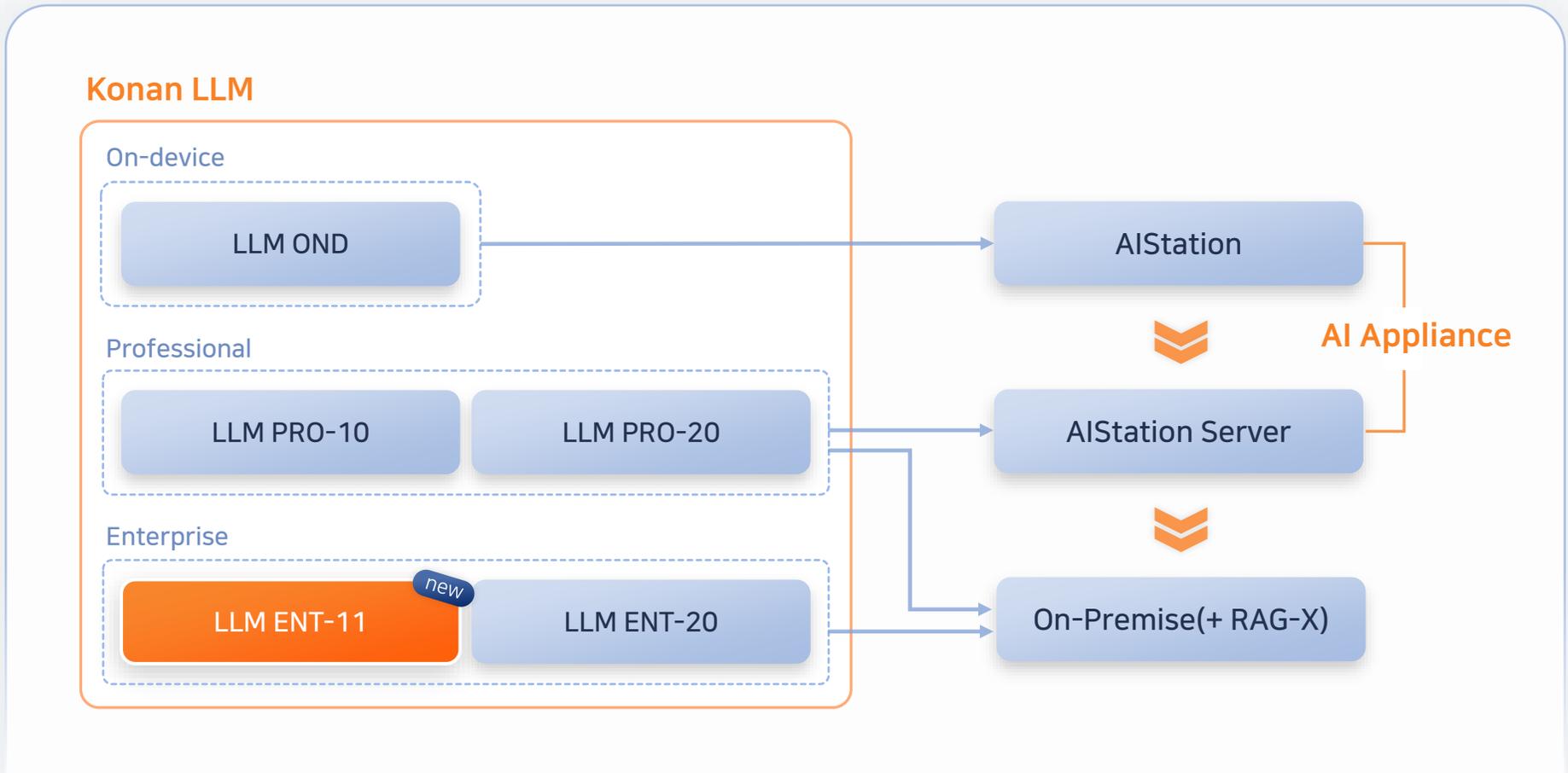
# 02

## Generative AI

- 1) **Generative AI** Lineup
- 2) Proprietary Generative AI, **Konan LLM**
- 3) AI Answers from All Data, **Konan RAG-X**
- 4) **Konan AIStation & AIStation Server**

# Generative AI Lineup

Based on various Konan LLM models (OND, PRO, ENT), we provide customer-optimized solutions ranging from AI Appliances (AIStation / AIStation Server) to On-Premise (RAG-X) deployments.



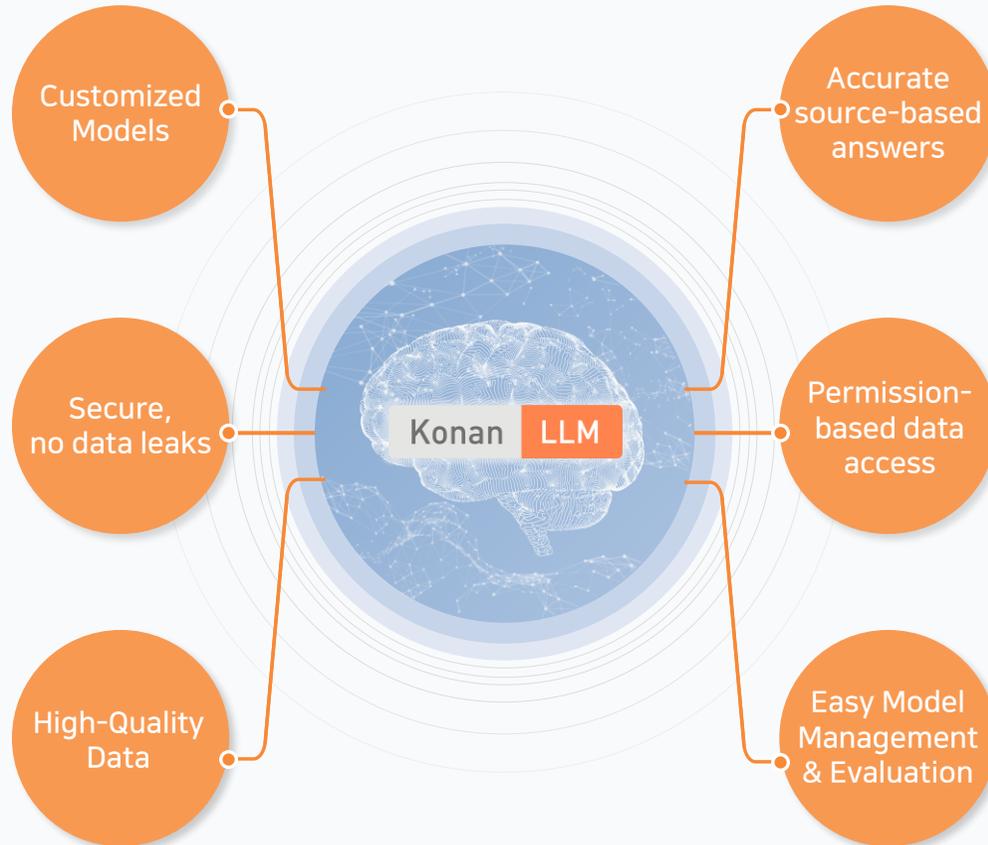
# Proprietary Generative AI, **Konan LLM**

Konan LLM is an on-premise solution offering models tailored to your business size. It delivers reliable answers by combining internal data with up-to-date web information using RAG and simplifies model operation with a no-code MLOps tool.

- Offers On-device, Professional, and Enterprise models tailored to your business scale for optimal selection.
- Generates more accurate and up-to-date answers using RAG-X based on internal data.

- An on-premise solution that ensures no risk of sensitive business information leaks.
- Applies filtering technology compliant with personal data protection guidelines.

- Selects highly reliable data from specialized fields such as legal, patents, reports, and news.
- Removes low-quality data through strict filtering.



- Provides reliable answers from internal company data while reflecting the latest information from web-based external data

- Minimizes information leakage risks by checking access permissions for each user.

- Provides 'Konan LLM Studio,' a no-code MLOps management tool.
- Enables system operators and administrators to directly manage models and assess performance.

# Konan LLM Use Cases



## Building a Generative AI for Internal Staff

- Collects and trains knowledge in common and specialized public sector areas
- Supports Korean-language report writing, summarization, translation, analysis, coding, and Q&A



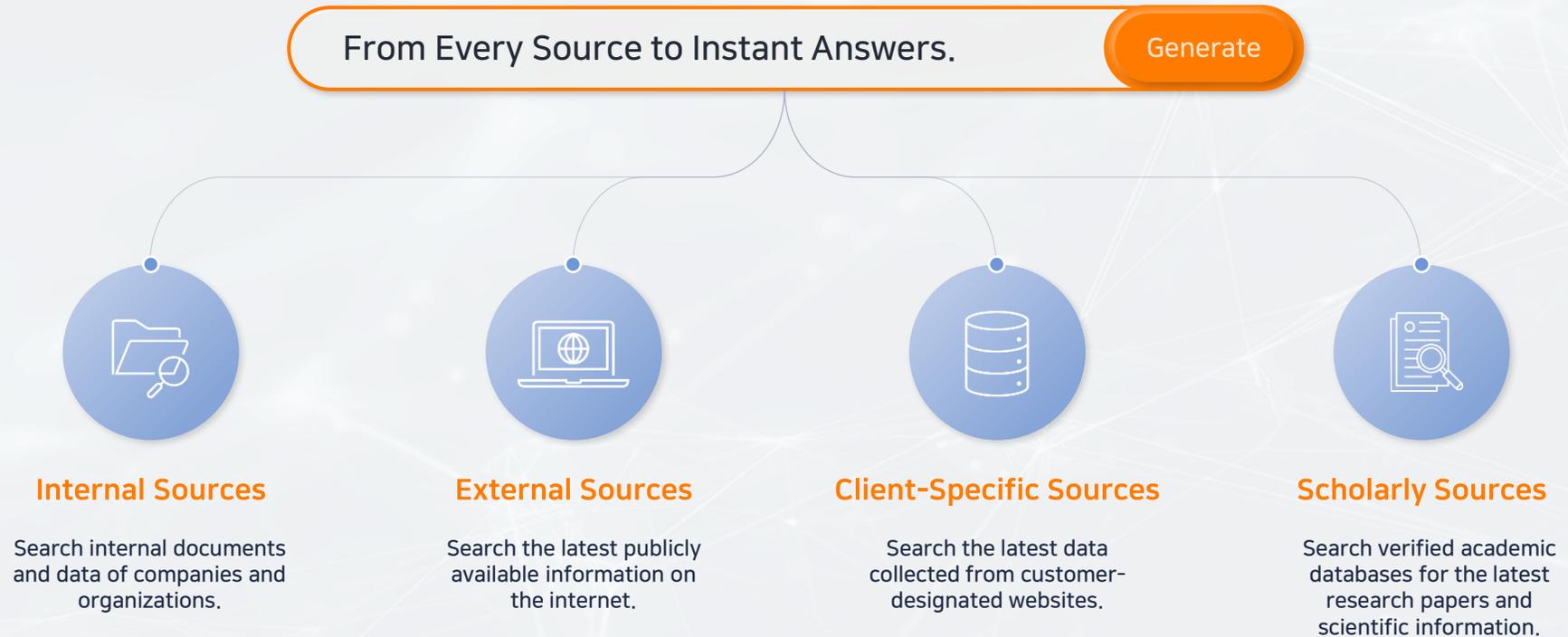
## Korea's 1st LLM-based patient record integration system

- Developed a RAG-based knowledge consultation platform enabling real-time information retrieval and support for medical staff and faculty

산업분야	회사명
Government Services	  
	  
	 
Finance Insurance Medical care	 
	 
Aviation Manufacturing	 
	

# AI Answers from All Data, **Konan RAG-X**

Konan RAG-X, powered by advanced RAG technology, is a B2B AI platform that delivers answers based on comprehensive search results—from internal documents and databases to real-time websites, online communities, and customer-specific sources.



# Konan RAG-X Use Case

A risk management officer at a bank uses Konan RAG-X to create risk reports for specific industries. The solution enables early detection of financial risks to minimize potential losses, while significantly reducing the time and manpower required for report generation.

## Risk management report on the construction industry by a bank risk officer



User

"Check our internal database and summarize how loan delinquency rates for construction companies have changed over the past 3 months."

1

Check internal data for early signs of risk



User

"Find performance and capital data of Company A from the Ministry of Land, Infrastructure and Transport, and also search for related materials from the Financial Supervisory Service."

2

Review documents from the specific organization



User

"Summarize any recent news or rumors related to Company A's sales performance and funding status."

3

Search for related news and updates online



User

"Based on the above information and our internal risk management guidelines, draft a response report for Company A."

4

Create a report per internal regulations using internal, external, and target data sources.



# Konan AIStation & AIStation Server

Konan AIStation & AIStation Server is an on-device solution featuring a proprietary Korean LLM and RAG-based generative AI, supporting real-time document workflows offline—from PCs to enterprise servers.

## Optimized Technology Performance for Korea

- Achieves high language understanding based on over 25 years of accumulated Korean NLP expertise
- Optimized system design runs on RTX 5090 without requiring multiple GPUs
- Package-based delivery minimizes initial deployment costs



## Reliable and Secure Operating System

- Pre-trained on large-scale, high-quality documents to provide superior document handling and responses
- Enhances generation reliability with Retrieval-Augmented Generation (RAG) technology
- Supports air-gapped environments and minimizes data leakage risks with personal information filtering



## Fast and Easy Deployment

- Delivered as a pre-configured OS and generative AI software package, ready to use without installation or setup
- Operates independently without internet access, suitable for internal or closed network environments



## User-friendly design

- Enables generative AI usage easily without specialized knowledge
- Features an intuitive interface and lightweight architecture for improved accessibility and convenience



# Konan AIStation(Server) Use Cases

Konan AIStation & AIStation Server significantly improve efficiency and processing speed across various business areas, including content generation and summarization, AI chatbots, search, data analysis/classification, and translation.



## Generation & Summarization

Report drafting

Promotional content drafting

Presentation summarization

Document summarization



## AI Chatbot

Knowledge consultation

Response generation

Task assistance

Document-based Q&A



## AI Search

Document search

Searching within documents

Custom search for policies·laws·documents

Custom content search



## Analysis & Classification

Extracting key insights

Classifying customer intent and usage patterns



## Multilingual Translation

Korean

English

Japanese

Chinese

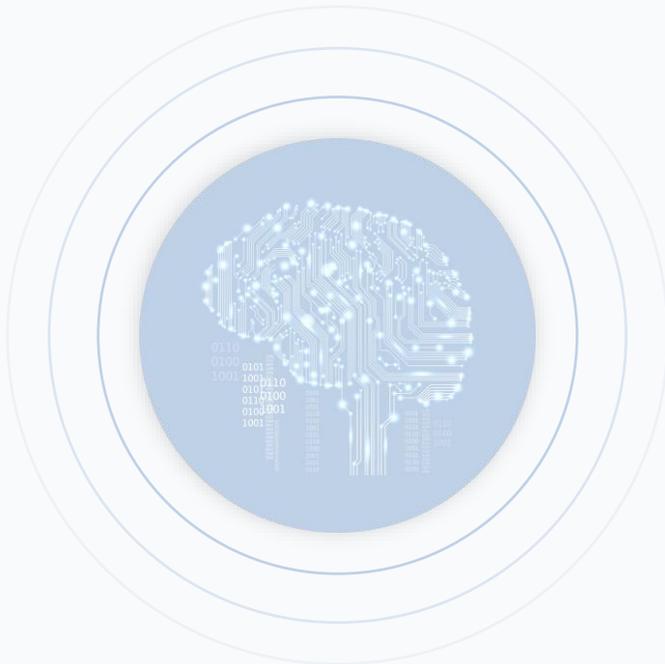
# 03

## Text AI

- 1) Vector Search with GenAI, **Konan Search**
- 2) Make Better Decisions, **Konan Analytics**
- 3) Boost CX, **Konan Chatbot**
- 4) AI Interpretation, **Konan Chatbot +**
- 5) Capture Business Signal, **pulseK**

# Vector Search with GenAI, Konan Search

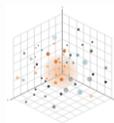
Konan Search supports 'vector search' that understands meaning and context, 'hybrid search' that enhances accuracy by combining vector and keyword methods, and 'Scalable disk-based vector search'.



## Vector Search with GenAI, Konan Search

### Feature

#### Neural search-based semantic search



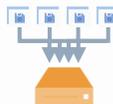
- Vector search enables synonym search without a synonym dictionary
- Image vector search enables similar image search without image captioning

#### Hybrid Search System



- Increase search accuracy with a hybrid approach that analyzes data with rule-based NLP technology first and then further analyzes data with deep NLP technology

#### Scalable disk-based vector search



- Disk-based algorithms support Vector Search of Billion-Scale, processing at index speed 9 times faster than open source

### Use Cases

#### Centralized Document Management

A system that allows you to centrally search and manage large amounts of documents distributed within a company.



#### Job Portal

Provided a robust solution the 1st and 2nd largest online Job Portal in Korea



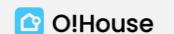
#### Open Government Portal

2.3 billion document search engine in the information disclosure portal of the Ministry of the Interior and Safety



#### Lifestyle E-commerce Search

Supports mobile commerce search traffic of 'OIHouse' with more than 20 million users operate



# Make Better Decisions, Konan Analytics

Konan Analytics is an 'intelligent text analytics engine' that analyzes structured and unstructured data based on machine learning, artificial intelligence, and data science technologies to discover business insights.



## Machine Learning · AI

Perform classification, prediction and summarization based on machine learning and AI-based learning models



## Analytics Studio

Easily and intuitively handle complex data processing tasks such as extract-transform-load (ETL) and exploratory data analysis (EDA) using the GUI



## Business Insight

A system that assists with quick decisions based on big data in a rapidly changing business environment



## Big Data Processing

Promptly analyze large amounts of data that cannot be processed via in-memory method



## Data Science

Extract refined knowledge and insights from structured and unstructured data through preprocessing, visualization, and modeling



## Deep Natural Language Processing

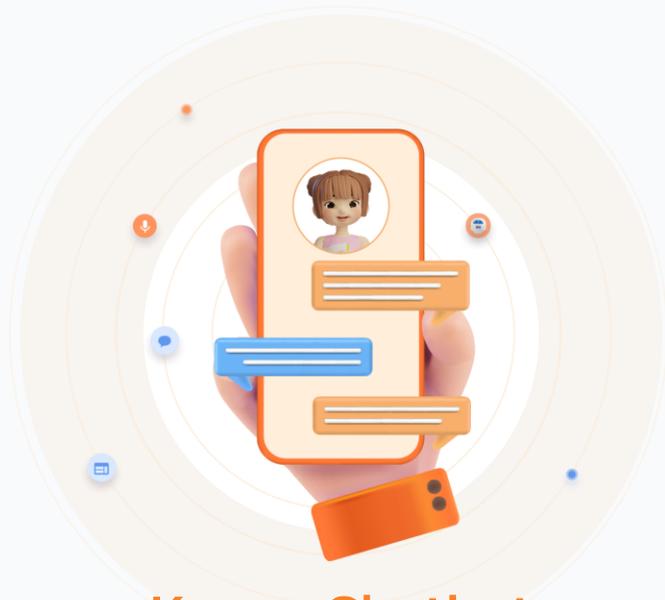
Performs tasks such as deep learning-based sentiment analysis, text summarization, machine reading comprehension (MRC), and named entity recognition (NER).

## 코난 애널리틱스 구축사례



# Boost CX, Konan Chatbot

Konan Chatbot is a conversational AI with advanced Korean language understanding, delivering accurate answers through hybrid intent inference. It supports voice interaction and scalable use, enhancing user convenience and experience.



**Konan Chatbot**  
Boost CX

## Feature

- **Hybrid conversational intent inference**

Provides optimal responses to off-script queries through deep learning-based natural language analysis, multi-layer intent inference, and integration with **Konan LLM**.

- **Cut conversation data costs**

By using **Document AI** technology, conversation data is automatically generated from unstructured documents such as manuals and rulebooks, reducing both time and costs.

- **Easy and intuitive development tools**

Easily integrate with legacy systems with minimal coding using the '**Conversation Scenario Editor**.'

## Technology

- Natural Language Processing (NLP)
- Natural Language Understanding (NLU)
- Document AI

## Use Cases

### Workplace Services

Operated chatbots in 6 areas including HR, IT, health, production, and finance



### National Tax Service

Tax consulting on value-added tax, comprehensive income tax, and year-end tax reporting



### Academic Advisors Assistant

Personalized information access (e.g., bills, class schedules, grades)



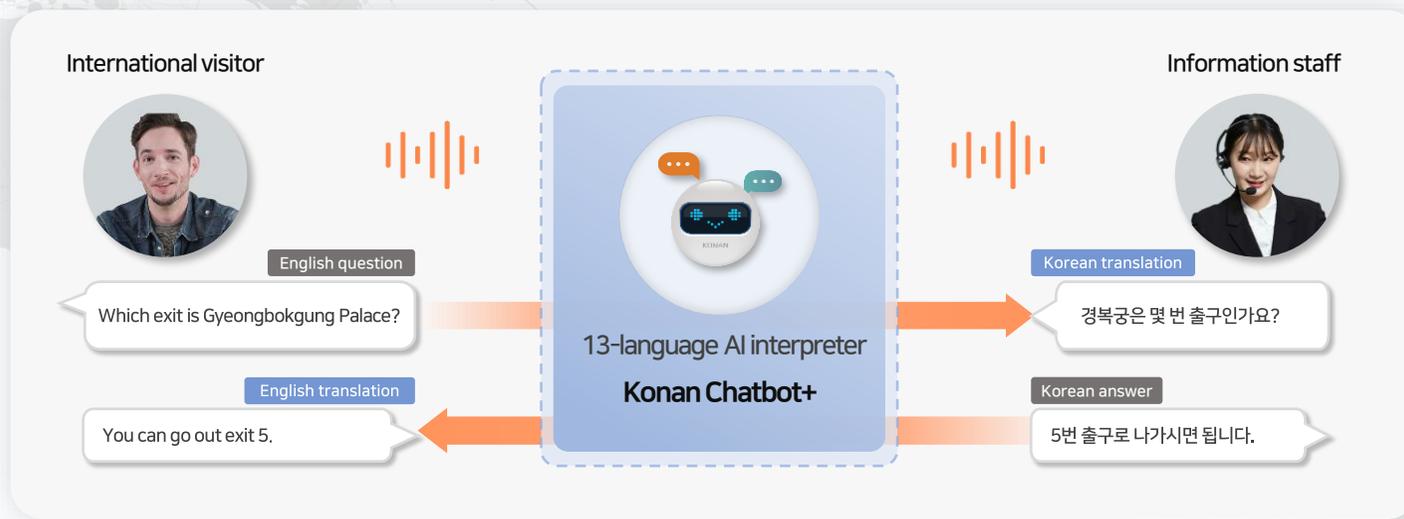
### Call Center Chatbot Service

24/7 Voice Phishing Response and Improved Response Rate



# AI Interpretation, Konan Chatbot +

Konan Chatbot+ is an AI-powered conversational chatbot that combines high-quality speech recognition, machine translation, and natural chatbot technology to enable smooth and convenient communication with foreigners in their native languages.



Service Introduced at Seoul Myeongdong and 10 Other Stations



Lotte Department Store Jamsil: Korea's first to adopt 'AI Interpretation'



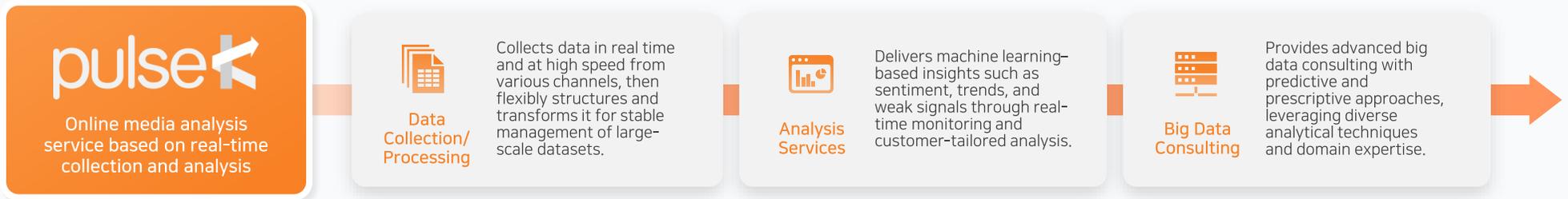
Launch of visualized consultation service 'Banking for Everyone'



Providing convenience services for international students

# Capture Business Signal, pulseK

pulseK is a real-time analytics service that leverages AI-powered data science to deeply analyze current online issues and uncover valuable business signals.



## Use Cases

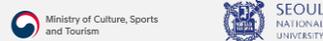
### Data Collecting/Processing

- Provided loading data to a social big data system for 'Woori Bank'
- Collects data for research on economic policies and issues at 'KDI(Korea Development Institute)'



### Big Data Consulting

- Establishes policy direction by analyzing people's thoughts on 'The Ministry of Culture, Sports and Tourism'
- Seoul National University published '2022 Trend Korea' by researching trends across society and analyzing big data using pulseK.



### Trend Analysis Service

- 'INNOCEAN' used pulseK to understand the lifestyle and characteristics of the target.
- 'Shinhan Card' used pulseK to analyze social consumption trends and the target's lifestyle.



### Analysis Service

- Real-time online monitoring service to discover policy issues and establish communication strategies for 'The Seoul Metropolitan Government'
- 'pulseK' is used for online market research for 'SK Magic' product sourcing.



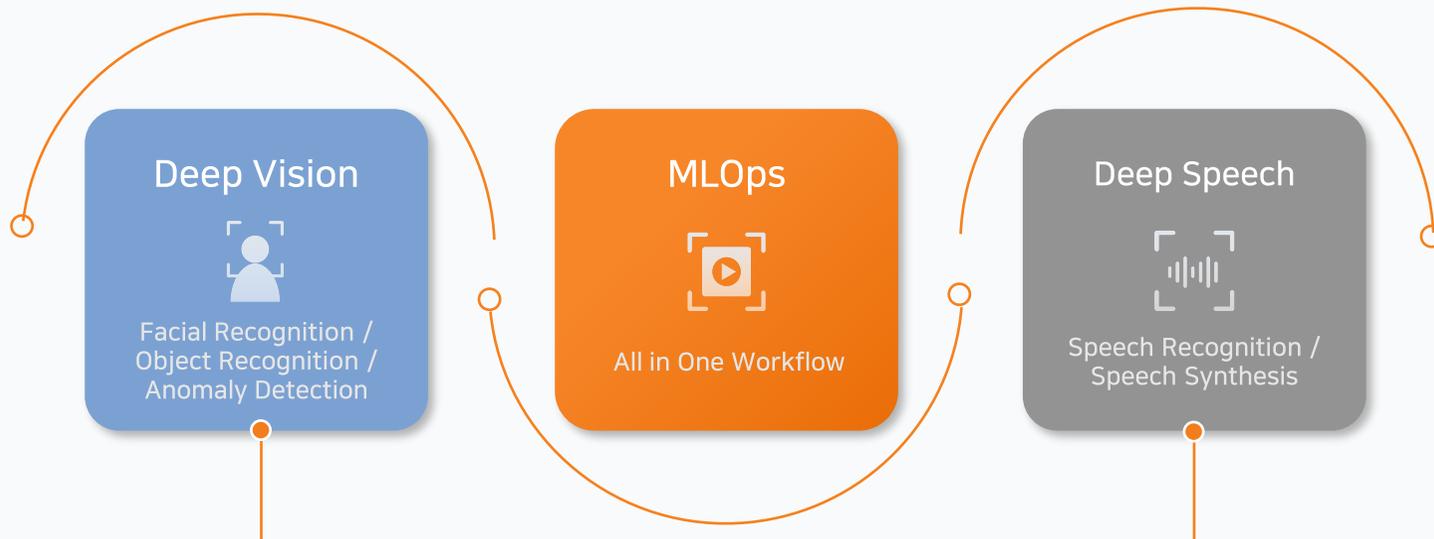
# 04

## Vision AI

- 1) Video Understanding AI, **Konan Watcher**
- 2) Speech Understanding AI, **Konan Listener**
- 3) Realistic AI Voice, **Konan Voice**

# Video Understanding AI, **Konan Watcher**

Konan Watcher is an AI Platform specialized in video processing. It enables the development of various AI applications in defense, safety, and broadcasting by supporting object recognition and anomaly detection within video content.



## Feature

- Applied data augmentation and correction techniques to secure training data.
- Extraction and generation of various deep metadata within digital content.
- Automatic subtitle generation for real-time video, combined with high-quality TTS technology at a professional voice actor level.
- An all-in-one workflow for video collection, analysis, processing, tagging, and training.

## Technology

- SOTA object detection technologies such as YOLO, Co-DETR, and RT-DETR.
- Flexible Adaptive Object Tracking technology that handles frame drops effectively.
- Speaker-adaptive end-to-end speech recognition and multi-speaker speech synthesis technology.
- Automating model execution, training, evaluation, and deployment via a machine learning pipeline.

# Konan Watcher Defense Use Case

## Client



Ministry of National Defense  
Republic of Korea

## Details

- Use case of AI-Based Combat vehicles Operation System Development
- Developed AI recognition models capable of identifying enemy combat equipment.
- Created optimized firepower recommendation models for various scenarios.
- Established an MLOps-based training platform for AI model development.
- Displayed target information and firepower recommendations on a web GIS-based map.
- Developed a drone communication interface for real-time

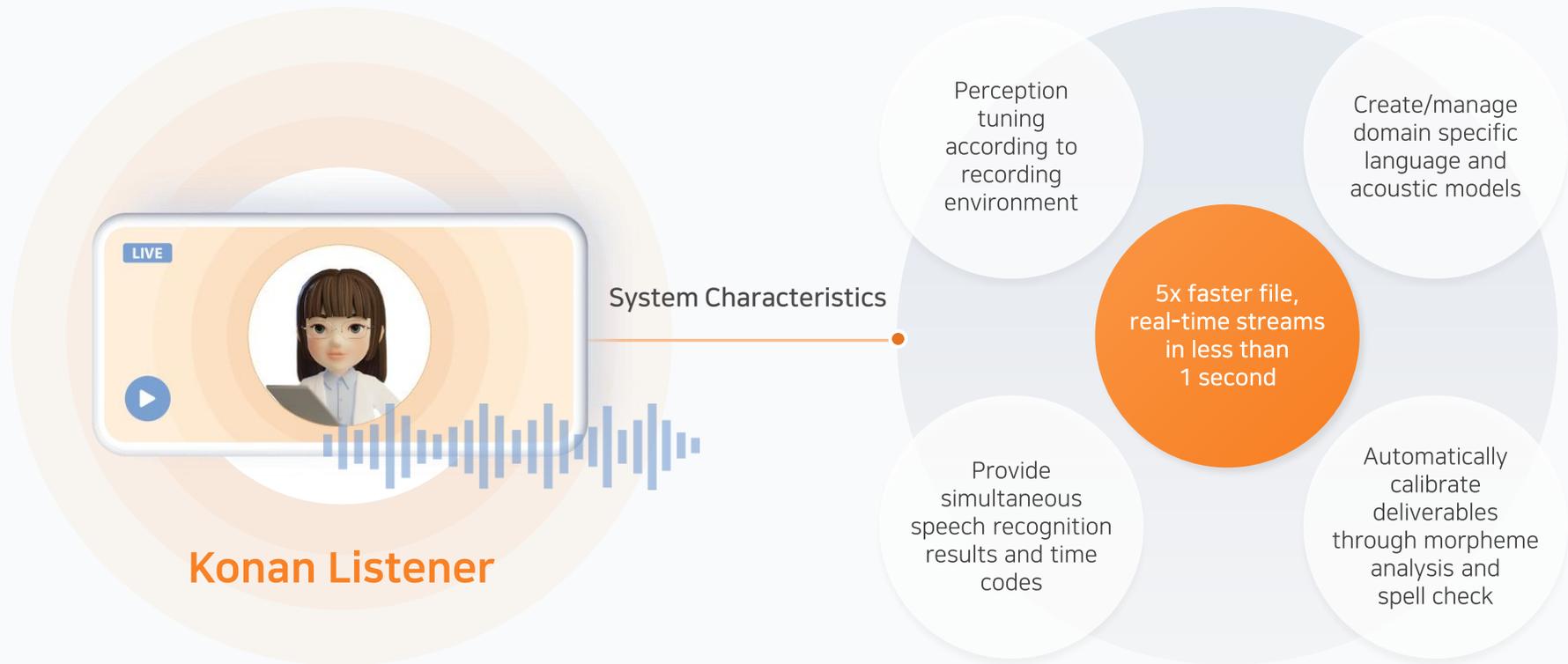
## Benefits

- Provides command and control support as an AI advisor for strategic and efficient strike tactics in network-based air and ground combat operations.
- Establishes an MLOps-based AI platform optimized for K-defense.
- Ensures efficient budget allocation in the defense sector, considering the declining domestic population.



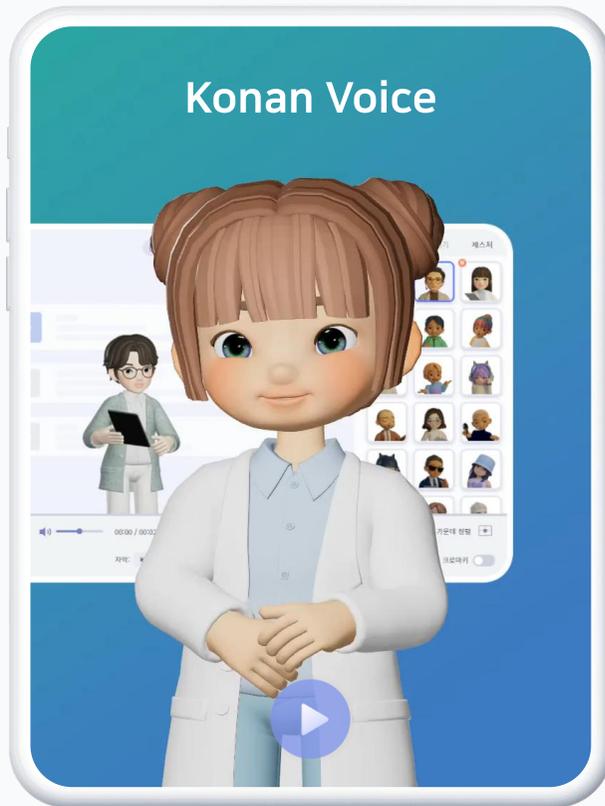
# Speech Understanding AI, **Konan Listener**

Konan Listener is a speech recognition solution that recognizes speech in a video, converts it into text, and provides it with a time code. The competitive edge is the ability to automatically correct voice recognition results through in-depth text analysis technology, along with high speed that processes files five times faster and streams in real-time.



# Realistic AI Voice, **Konan Voice**

Konan Voice is an end-to-end speech synthesis solution that uses a single neural network technology to synthesize voice waveforms from text inputs instantly. It has the competitive edge to quickly synthesize the most natural high-quality voice.



- **3D characters with 6 facial emotions**

Type your script text and the 3D character will automatically lip-sync and dubs.(6 emotions available: happy, sad, angry, embarrassed, anxious, and nervous)

- **Easy to use**

High-quality speech synthesis service that generates voices by selecting a voice actor and inputting a script

- **High-Quality Voice that Surpasses Professional**

MOS 4.5+ natural, high-quality voice production capability  
 \*Mean Opinion Score (MOS): A quality index that subjectively evaluates voice quality into five levels

- **Natural Reading that Understands the Context**

Provides the most natural reading quality by understanding context and meaning, such as spacing correction, sentence closing-ending recognition, postposition correction, and dual expression recognition

# 05

## Digital Twin

- 1) A Flight to a Better World, **Konan AI Pilot**
- 2) Predictive Maintenance, **Konan PHM**

# A Flight to a Better World, Konan AI Pilot

Konan AI pilot can team up and collaborate with pilots.

It learns and understands missions like a human and can perform high-risk missions on behalf of humans.



**Autonomous Flight Simulation**

**Team up with human pilots**

**Installed on an UAV\* to perform high-risk missions**

## Features

- Simulated engagement training with human pilots, including many-to-many engagements
- Perform missions for tactical purposes and provide a briefing system to analyze/validate them
- Realistic mission rehearsal and simulation of edge cases\* at low cost

\*Edge cases: rare situations, extreme situations

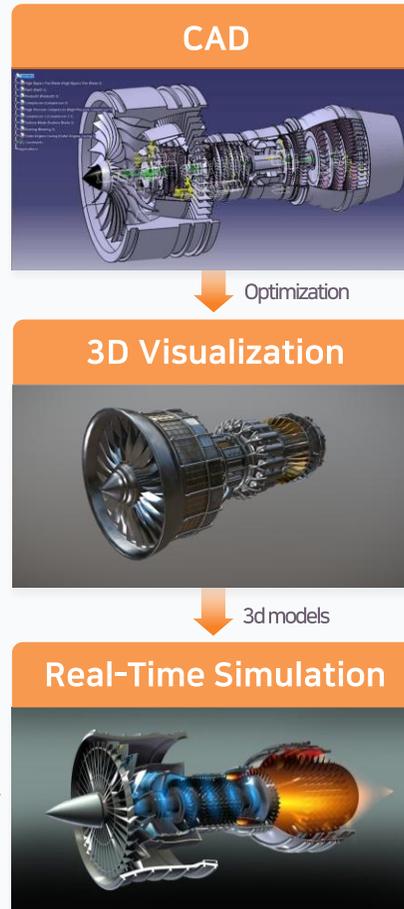
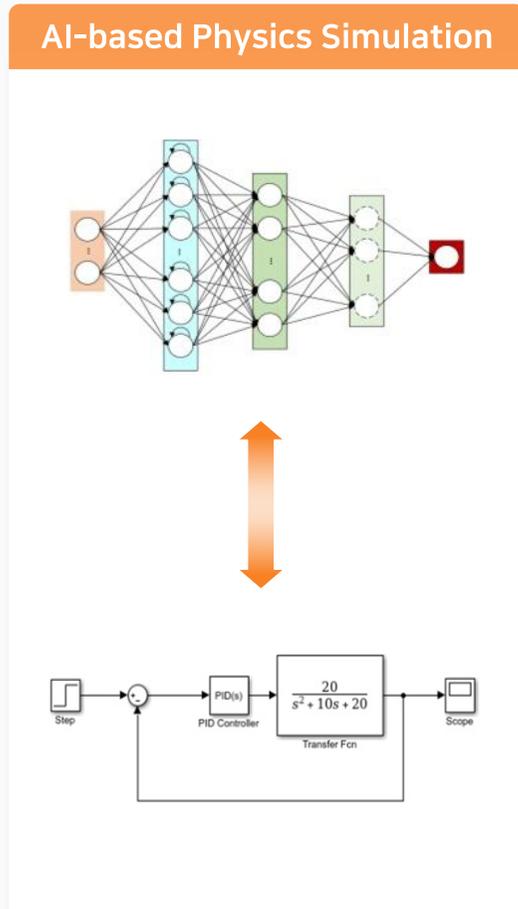
## Technology

- Autonomous flight simulation utilizing hybrid reinforcement learning
- 3D rendering technology that visualizes real fighters
- Installed on an UAV\* to perform high-risk missions instead of humans
- Voice recognition command and control

\*UAV: Unmanned Aerial Vehicles

# Predictive Maintenance, Konan PHM

Konan PHM is a solution that combines digital twins and AI technologies (PBDL and RL) to help diagnose equipment/component failures and make residual life prediction decisions.



## Features

- AI analytics service based on Deep Learning
- Monitoring function for faster fault diagnosis and lifetime prediction in the field
- When equipment/parts fail, it helps to find the cause and make decisions to solve it

## Technology

- Time Series Sensor Data-Based Deep Learning Diagnostic Algorithm
- Physical Simulation Interlinked Deep Learning (PINN) Algorithm
- Real-time, high-quality visualization
- Digital twin for fault diagnosis/prediction/cause analysis of equipment

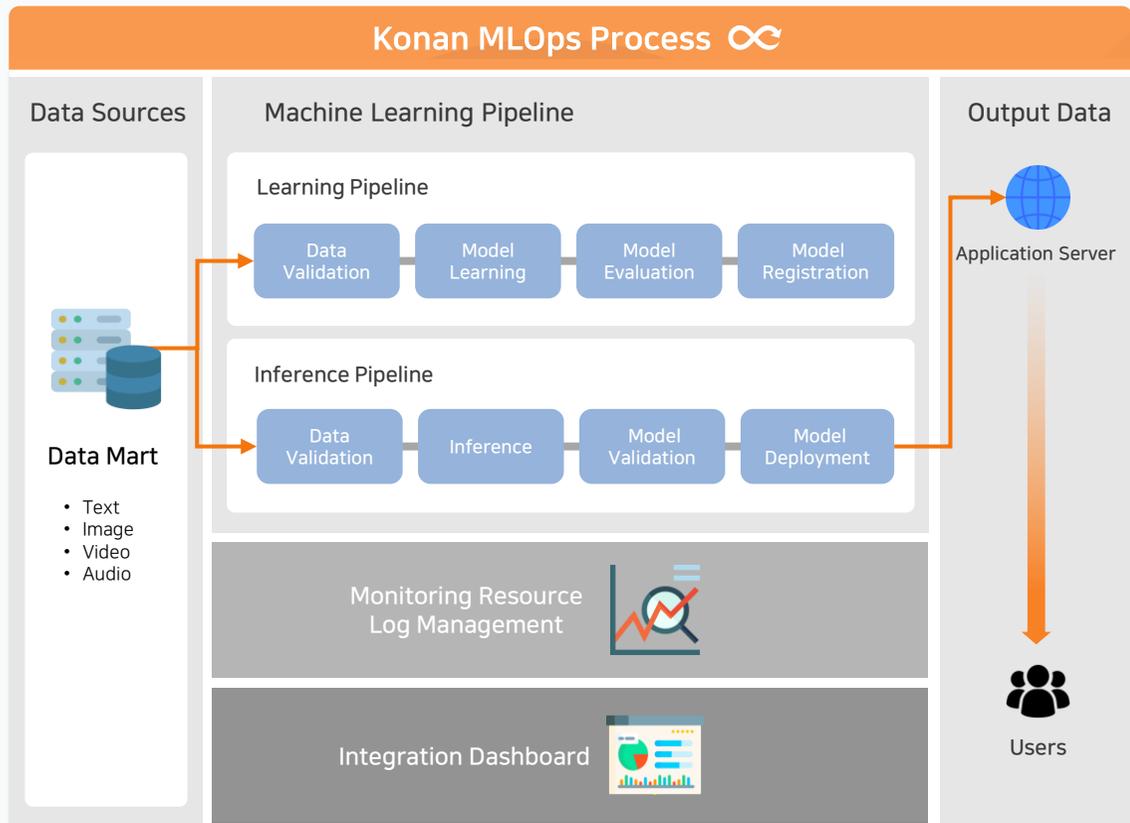
# 06

## Foundation (Core Technologies)

- 1) Konan MLOps
- 2) Konan AI Framework, **dtrain**
- 3) Konan Digital Twin Framework
- 4) Programming Language, **K-Language**

# Scalable and Reliable ML, Konan MLOps

Konan MLOps automates the entire process from deep learning model training to deploying, providing operation convenient. It is also a flexible solution that provides an optimized operating environment tailored to each project's characteristics.

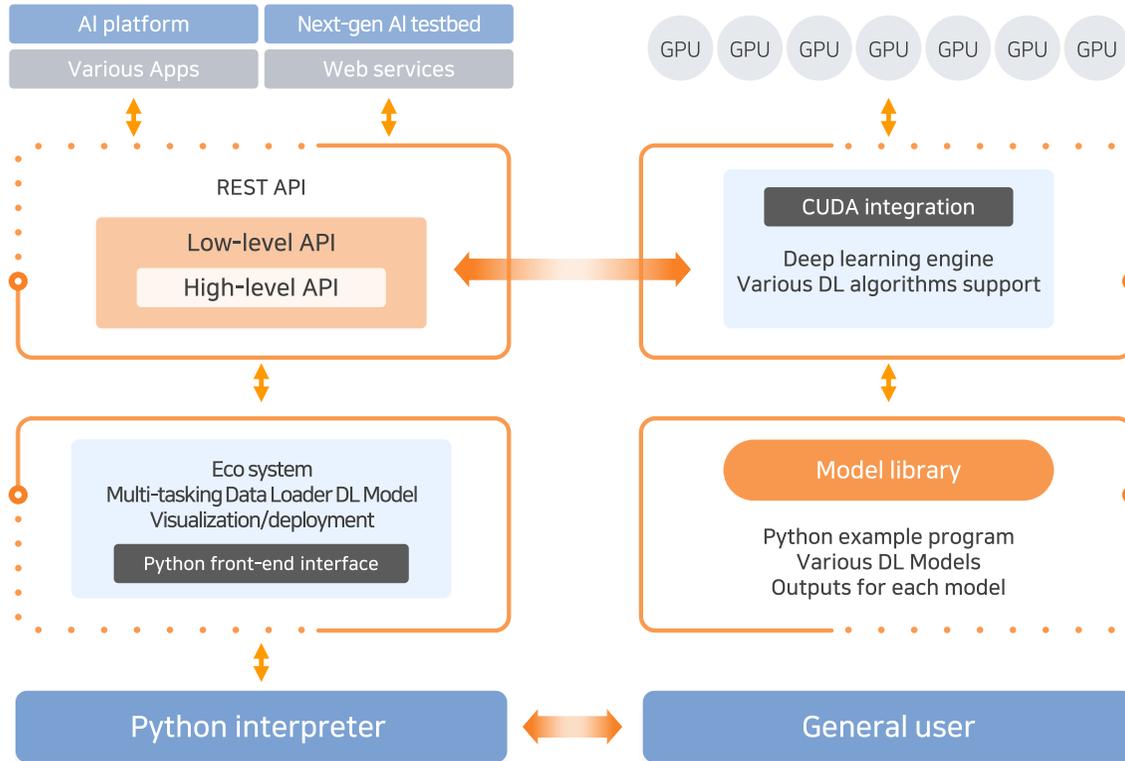


- 
**Flexible architecture**
  - Modular components Customizable for each project
  - Easy integration with existing systems Offers various interfaces (CLI/SDK/GUI/Rest API)
- 
**Efficient resource management**
  - Offers optimized plans from single GPU servers to enterprise-level scale.
  - Unified management of GPU, CPU, and memory resources.
- 
**Process automation**
  - Automation of the entire process of model execution, training, evaluation, and deployment through a pipeline.
- 
**Q&A Feature**
  - Convenient operation support with alert, reporting, and monitoring features.
  - Management capabilities at the project, group, and task levels.
- 
**Dashboard provision**
  - easily view and manage all the elements needed for model development through a dashboard.

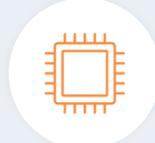
# Konan AI Framework, **dtrain**

dtrain is a deep learning framework developed by Konan Technology. It supports on-premise deployment to prevent data and model leakage, protecting domestic AI from external threats. As a core technology, it meets research and application needs, contributing to AI industry growth.

## dtrain Process

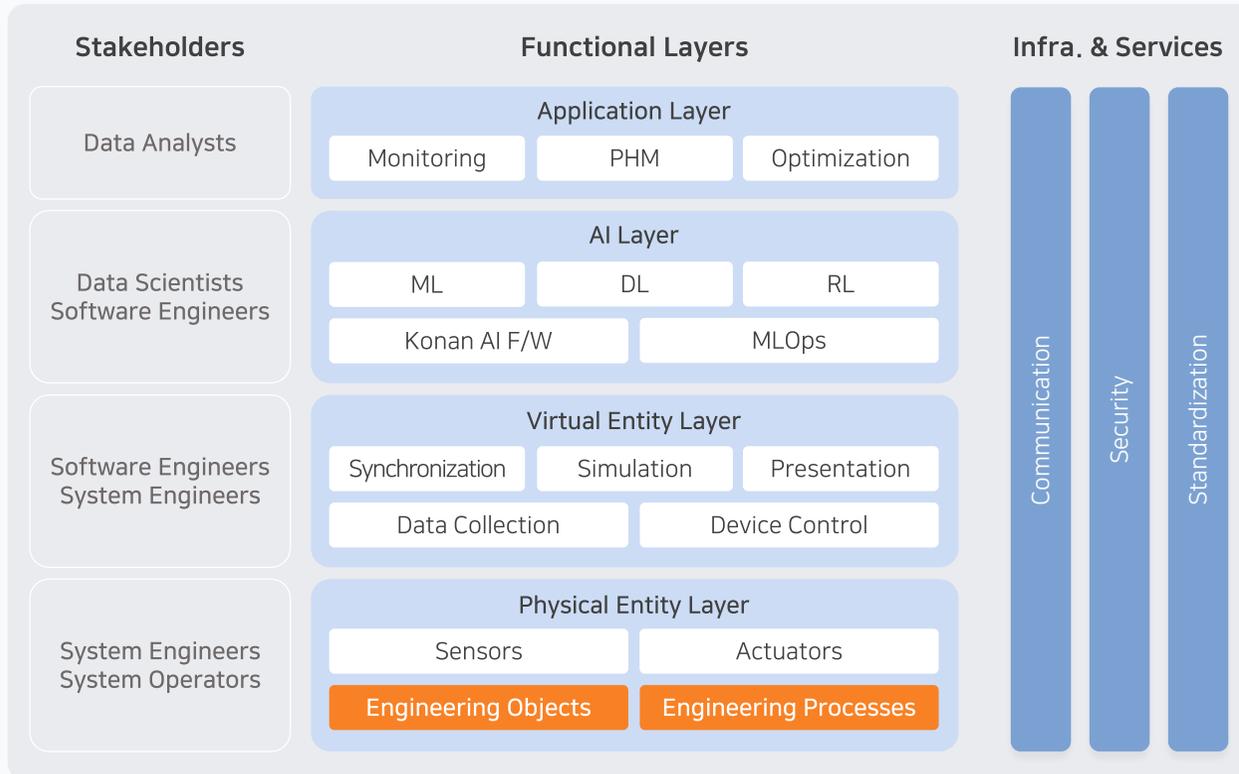


## Feature

 <p><b>Technological Independence</b></p> <p>Achieves technological self-reliance through the localization of core technologies</p>	 <p><b>Flexibility</b></p> <p>Easily adaptable for implementing and expanding various AI models</p>
 <p><b>Lightweight Design</b></p> <p>Optimized for deployment across diverse environments with minimal system load</p>	 <p><b>Reliability</b></p> <p>Prevents data leaks and ensures secure, stable operation in sensitive settings</p>

# Konan Digital Twin Framework

Konan Technology is developing a digital twin framework applicable to the aerospace and defense industries. This framework supports system diagnostics, predictions, and optimization tasks through simulations within a digital twin environment.



## Feature

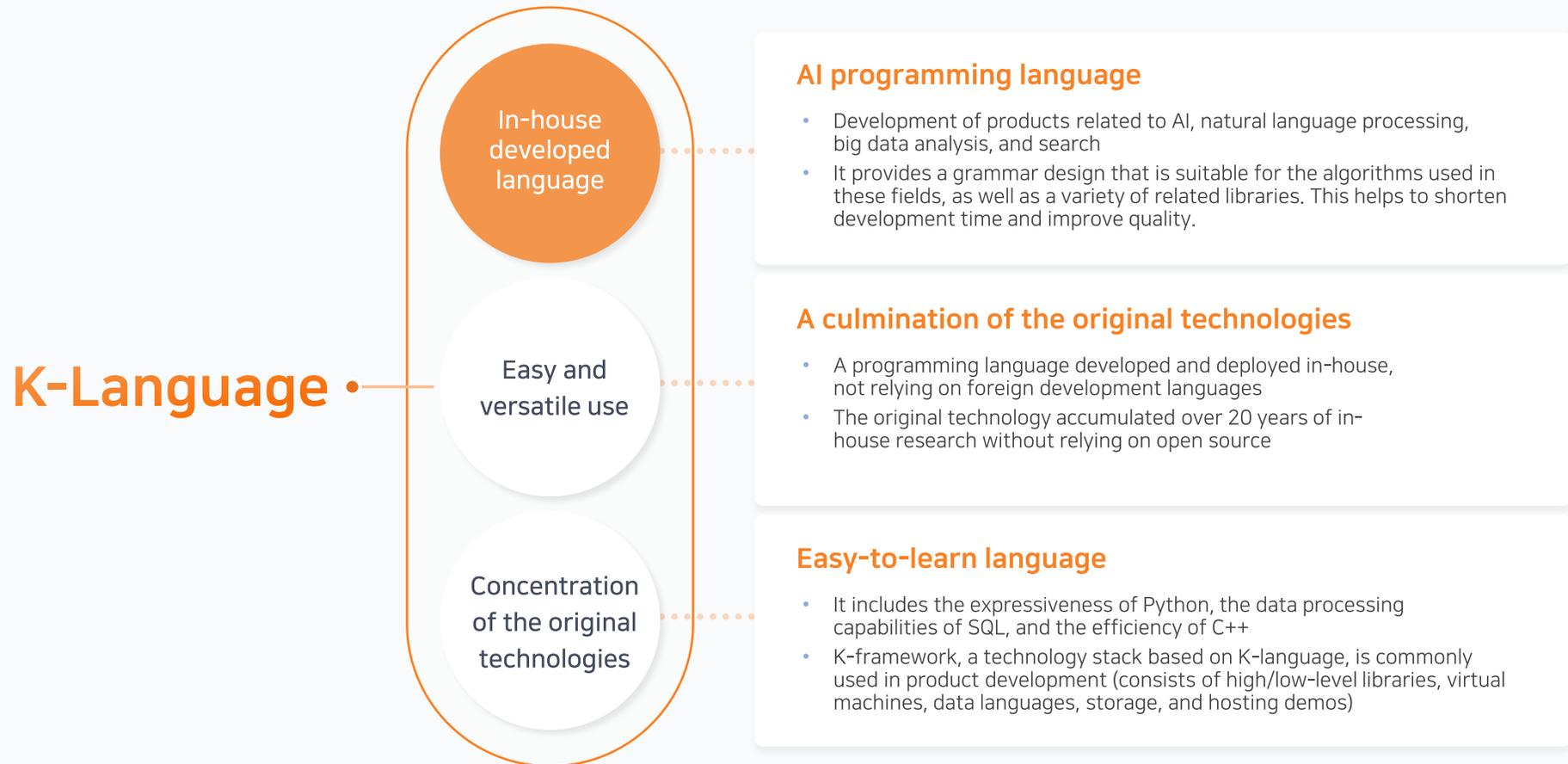
- A high-resolution digital twin development framework for high-quality PLM decision-making.
- ISO 23247 standard framework

## Functionality

- Cross Commissioning using Digital Twin
- Interoperability between heterogeneous Digital Twin objects
- Building explainable decision-making application models
- High-speed PINN (Physics Informed Neural Network) inference engine
- Synthetic data generation for AI training
- Hardware-accelerated high-quality visualization

# Programming Language, K-Language

K-Language is a programming language developed by Konan Technology for AI and big data development.  
It is the foundation technology for all product development in the Text AI field.



# Thank you

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