

# Company Profile of IMO

INSTANT MESSAGING OPTIMUM

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## Messaging Service

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Based on IT know-how and technology, IMO provides professional services in various business areas such as **Smart Factory, Solution Delivery, IT Outsourcing, and Messaging Service.**

## Introduction



Established	May 2003
Paid-in Capital	100,000,000 KRW
Business Field	S/W, Fin.Tech. Wired&Wireless Service, Messaging
Address	#605 Tera Tower A 167, Songpa-gu, Seoul, Korea
Contact	(T) +82-2-2054-3330 / (F) +82-2-2054-3332
Homepage	<a href="http://www.imokorea.co.kr">www.imokorea.co.kr</a>

## Vision

As a business partner in smart mobile services, IMO puts customer satisfaction first.



Customer  
-Oriented

Realizes CS through customer-oriented services.



Creativity &  
Innovation

Drives change with endless challenges and innovation.

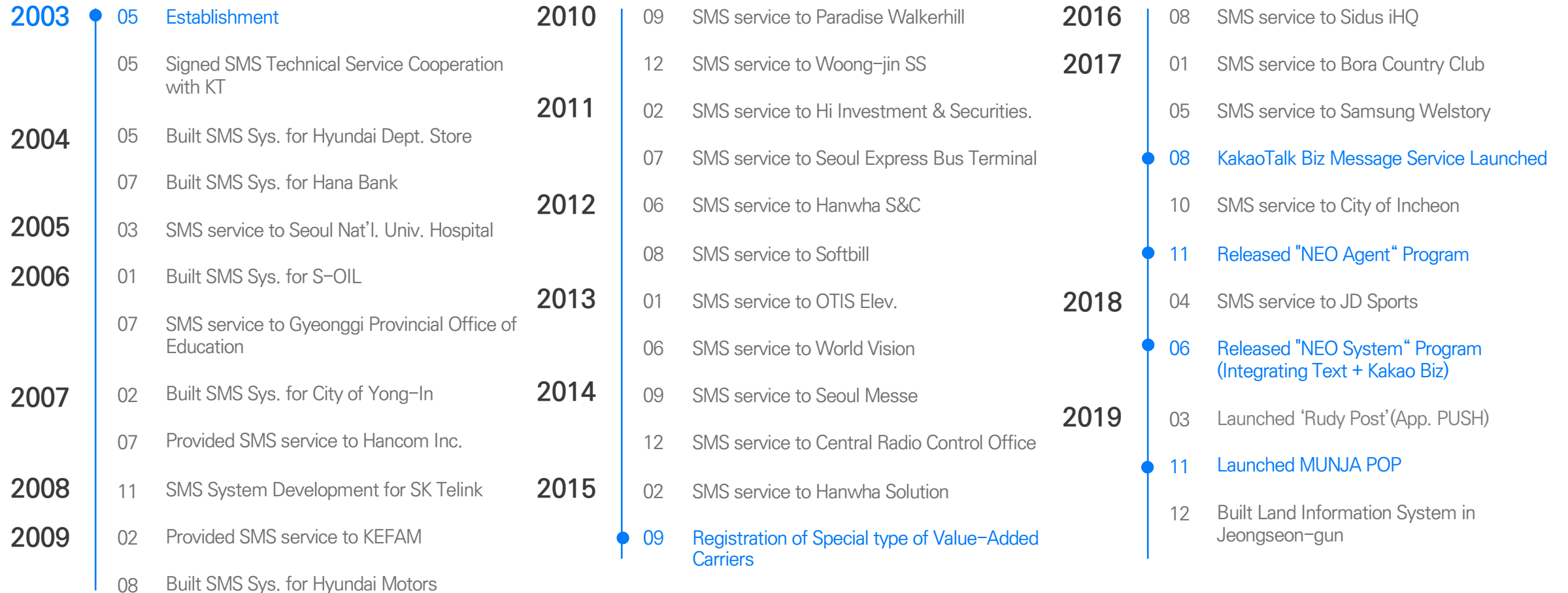


HR  
Development

Fosters competitive talent in the IT field through constant self-development.

## 02. History (1/2)

Our experience in deploying messaging systems in diverse environments has secured a stable position in the corporate messaging market.



We are growing steadily by expanding our business to **Smart Factory, Solution Delivery, and IT Outsourcing.**

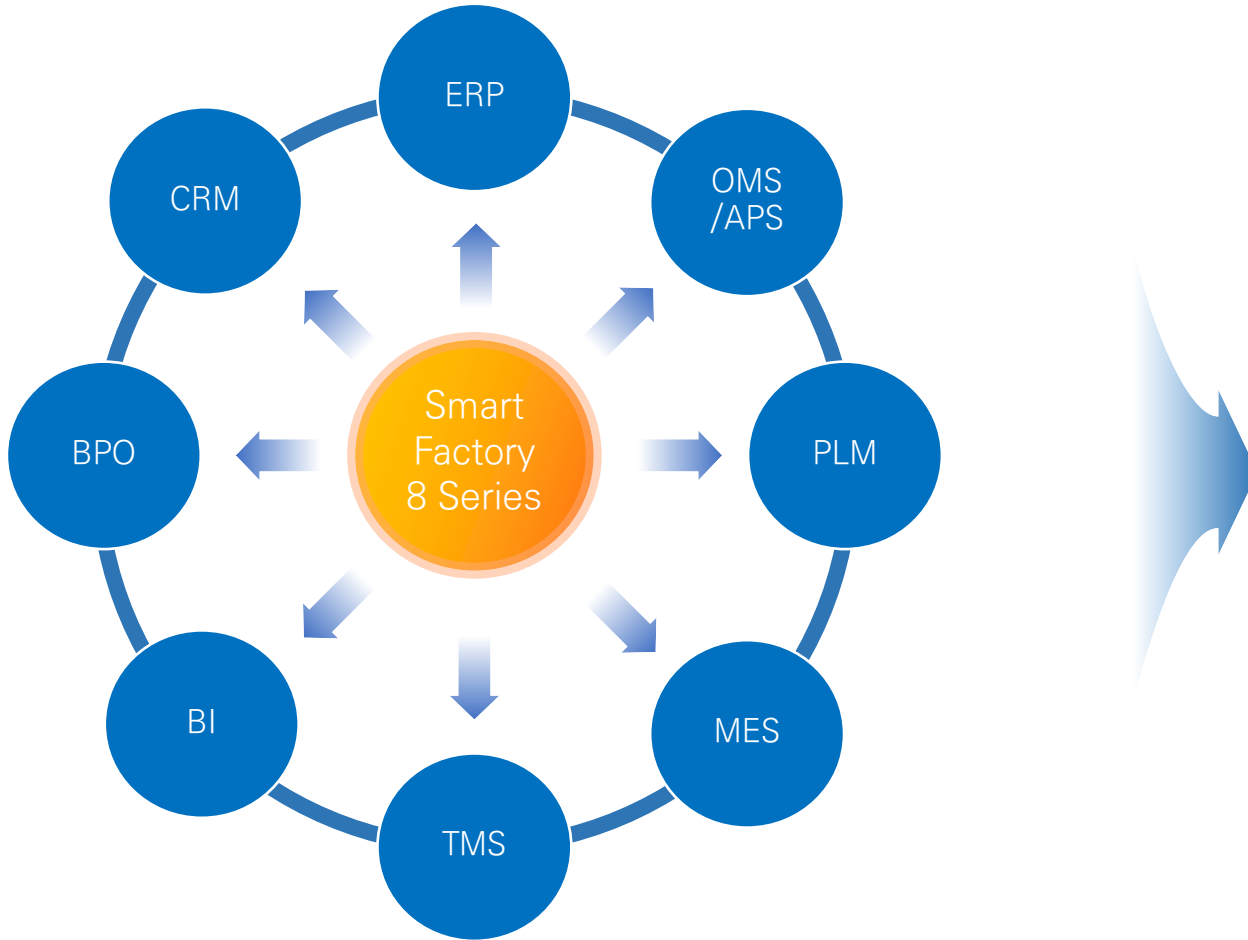


### 03. Partners

We have formed strategic partnerships with various clients in many fields to provide customized mobile services.

"With continuous innovation and challenges, we will create a greater future for our customers' smart mobile lives."



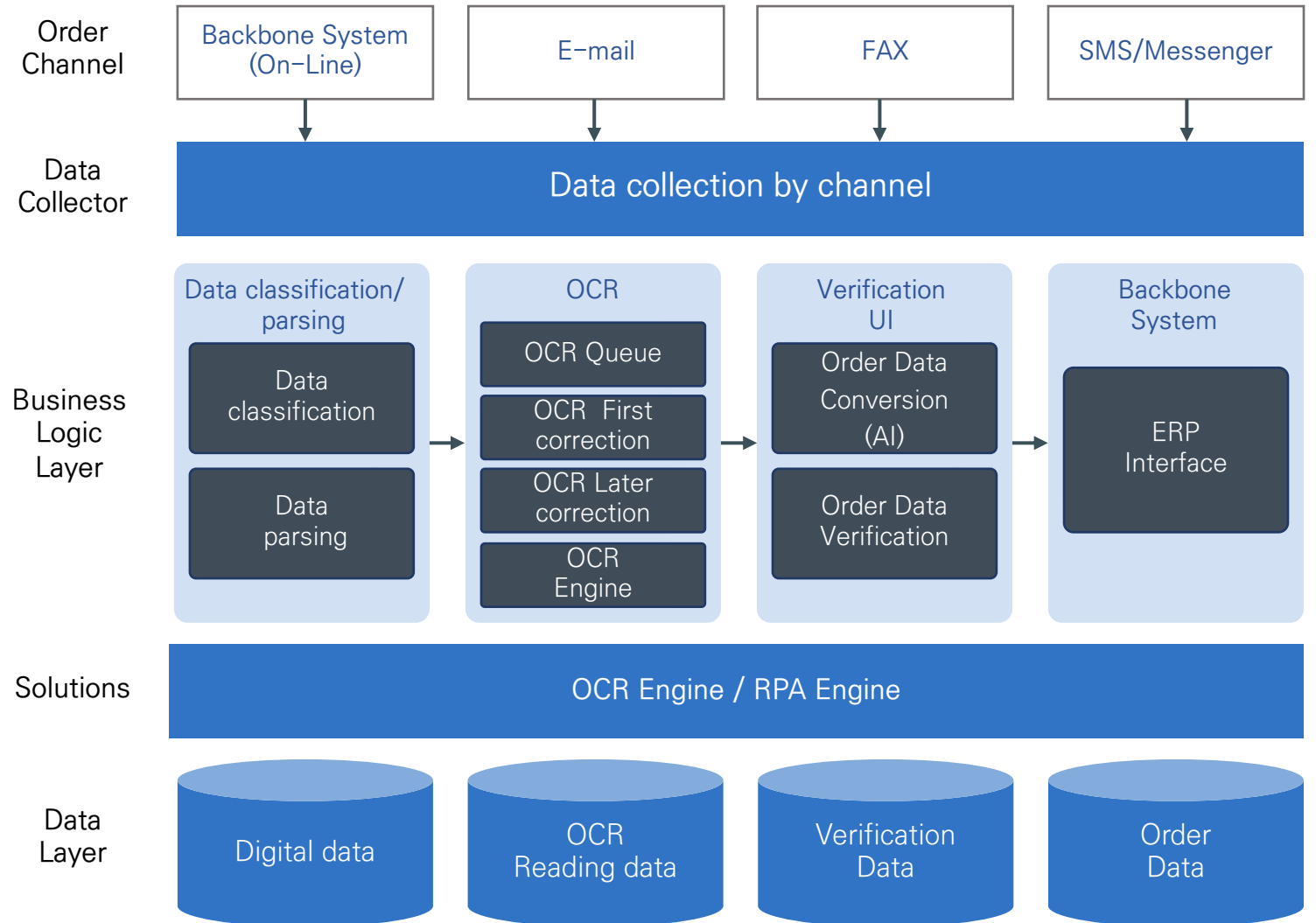


- **A Company with Consulting capabilities** that designs and proposes all the systems required for the client's ICT transformation
- **Development/Consignment Mgmt. Center** operating on behalf of system operation and maintenance(AMO)
- **SI Company for B2B Smart Factory** responsible for comprehensive consulting, follow-up and step-by-step advancement

OMS (Order Management System)



- The order data from analog channel, for example Fax, email, etc, is automatically processed by using OCR and AI technology.
- Constructs an order management system that automatically collects order data for each channel and classifies data and automatically generates order data with an AI program based on Python.



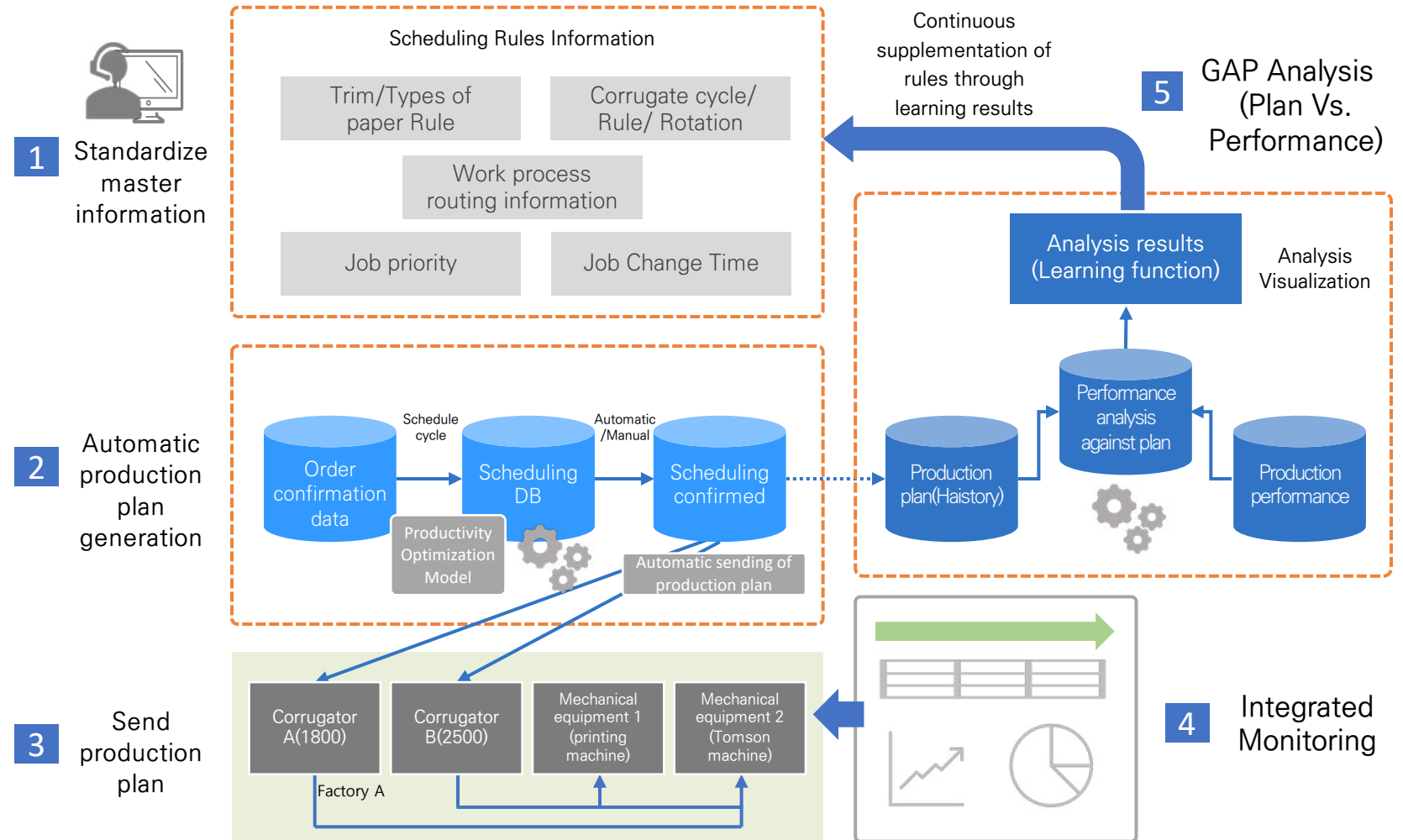


## RTS (Real Time Scheduling)



- Based on the order data received every day from the custom production factory, a **real-time production plan is automatically established** according to the facility capabilities of each factory and production instructions.
- A real time scheduling system for a model optimized with rule-based production planning and learning functions.

## Auto Scheduling System



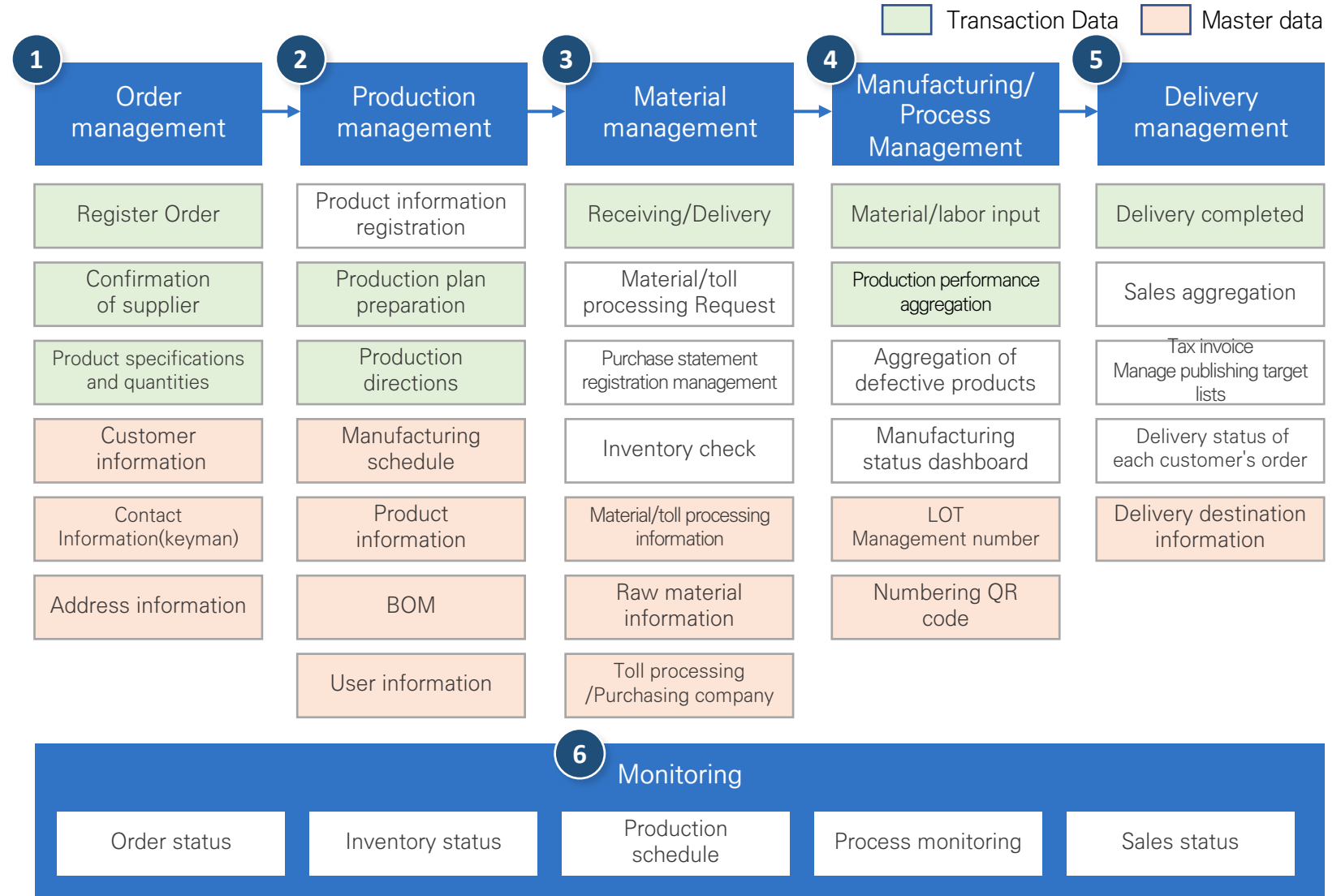
☞ **Corrugator** : a machine for making raw materials(Corrugated Cardboard)

☞ **Tomson machine** : a machine that prints and cuts packaging boxes

## MES (Manufacturing Execution System)



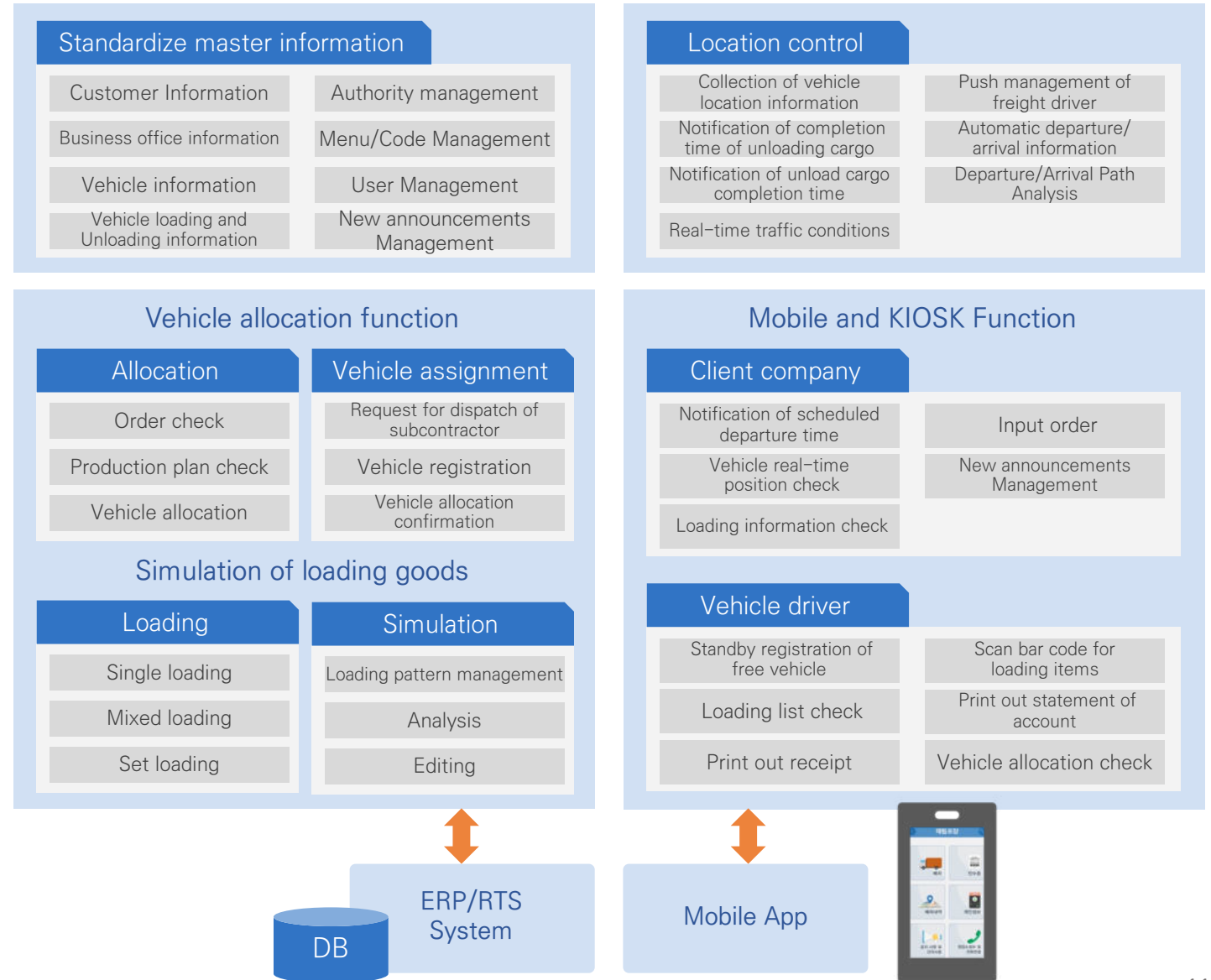
- Smart factory management in the paperless environment is possible by utilizing kiosks, barcode/QR codes, and tablet devices for manual production management such as material warehousing, delivery order, production order, and quality control etc.
- Construction of an integrated production management system for material management, process management, and goods delivery management based on orders and production plan results



## TMS (Transport Management System)



- After production is completed, the delivery date to customer, the delivery place to the customer and the load capacity are calculated, and the transportation plan is automatically matched with the standby vehicle, and the load cargo/unload cargo/delivery process is managed through APP.
- Establishes transportation plan according to vehicle size(1 ton, 2.5 ton, 5 ton, etc.) by calculating customer delivery time, delivery location, and delivery volume based on completed orders Manages vehicle driver(APP.) in real time Automatically sends notification messages to customers before departure



## Background on the drive

Different order forms, order registration errors, inconsistent productivity, and manual-based production management were hindering business efficiency and customer satisfaction improvement.

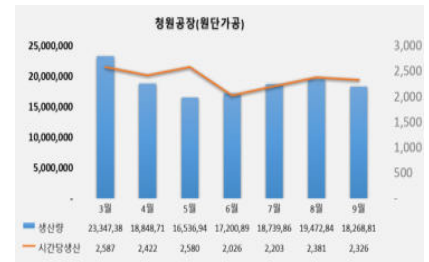
Many errors to get and place an order

- Accurate data to get an order and place an order must be entered, but frequent errors in registering order data occur due to manual input processing such as telephone or fax
- Frequent unnecessary communication between companies for error verification and correction
- Standardization system such as Flute, Trim, Paper Kind Code, Size, Score, etc. is urgently needed



Low productivity and operational efficiency

- Frequent job change due to small quantity batch production.
- Lack of productivity due to manual-based production
- Inconsistent productivity based on seasonal order volumes
- Difficulty to grasp the progress of the preceding process



Manual-based production management

- Although manufacturing facility of packaging box has been invested, no partner company is implementing the production management system
- Manual inventory management, quality management, and delivery management make site managers more burdened with work
- Delay and error in customer response due to manual identification of production progress

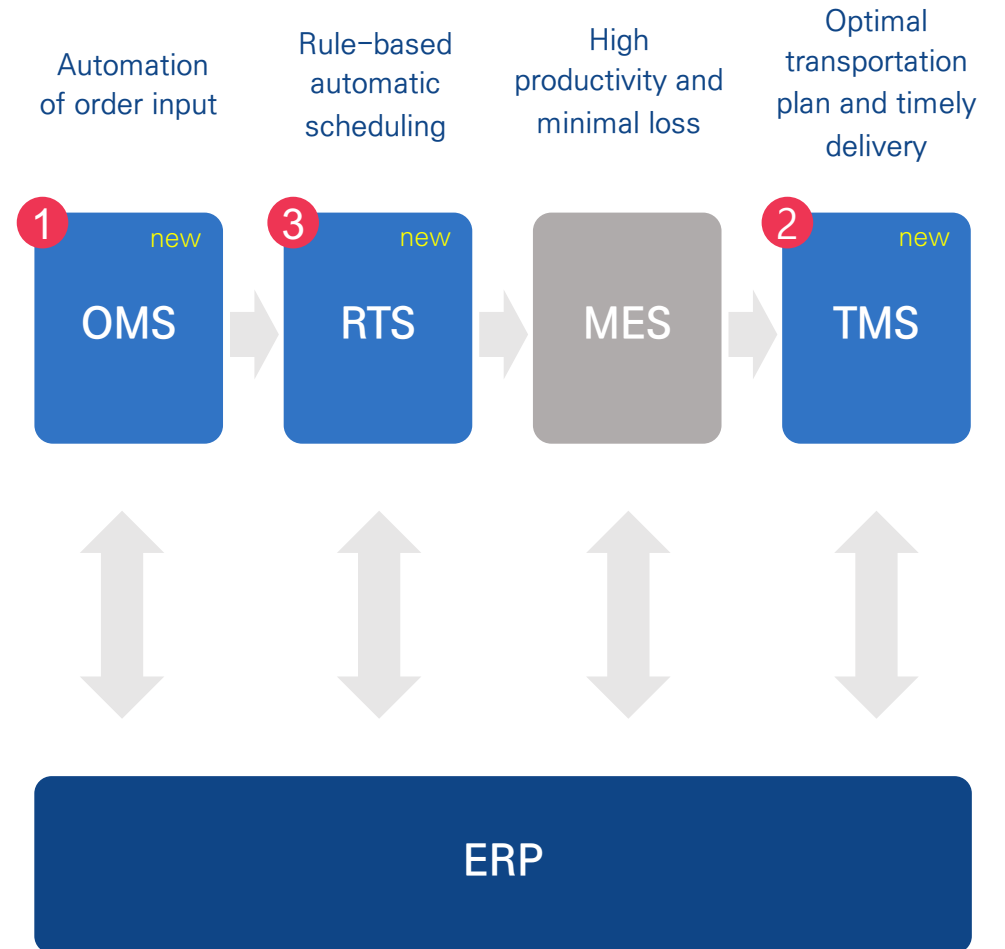


## Direction



- Standardize master information  
(Product information, facility management, various codes, etc)
- ERP/MES system Enhancement
- Interface between new Systems & legacy(ERP/MES)
- Construction of automatic system of order input (OMS)
- Construction of Automatic dispatch system (TMS)
- Construction of rule-based automatic scheduling system(RTS)

## Digital Transformation for Corrugated Cardboard Packaging and Manufacturing Operation



*\* The number indicates the order of introduction of new system*

## Effect

Improvement manufacturing process, manufacturing quality and work efficiency, advancement of production site management level



### Improves production site flow

Possible to

- get progress of production
- get the overall situation at the production site
- manage raw materials
- reduce return products and comply with delivery dates



### Improves the quality of products

Possible to

- prevent errors of work
- find error quickly in field
- help keep track of products and processes

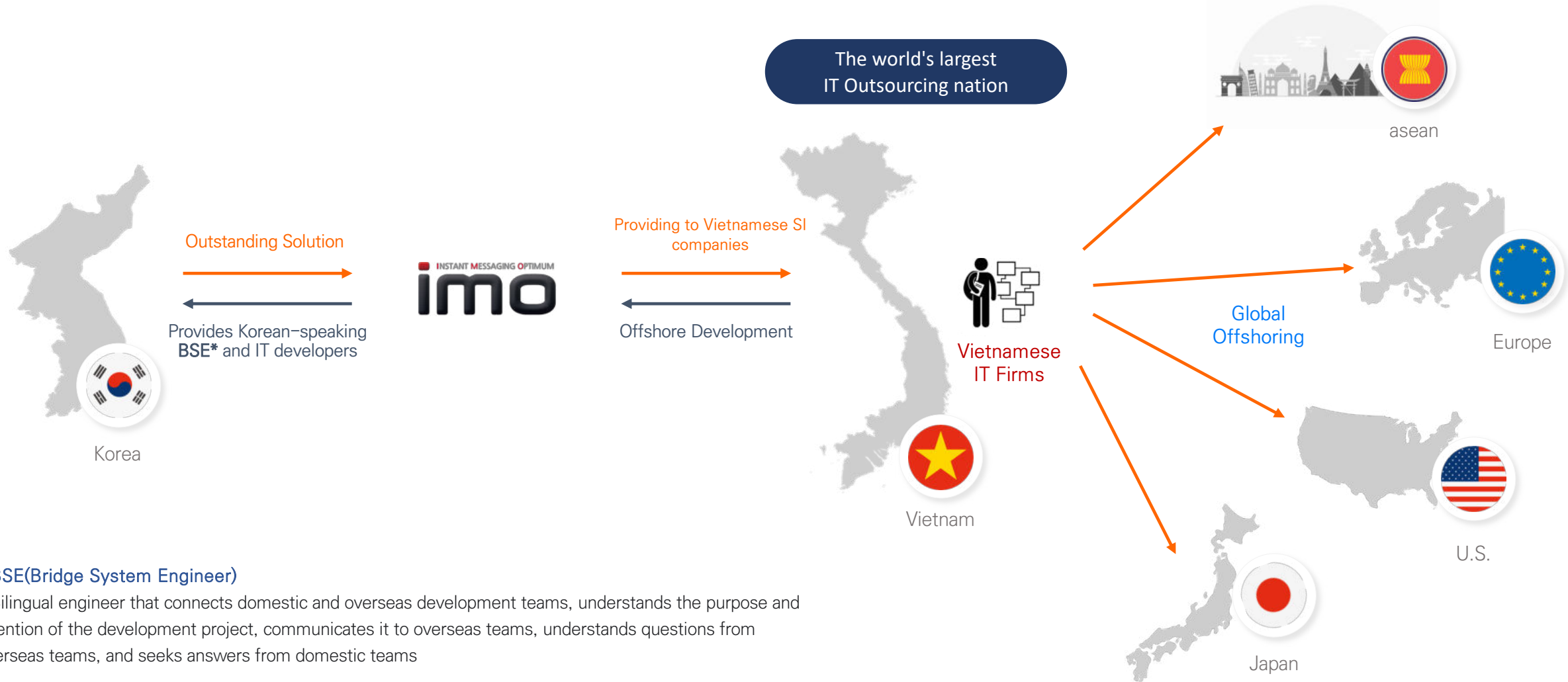


### Improves production site work efficiency

Possible to

- increase work efficiency through paperless work and operations
- promote automation of production sites
- increase efficiency of facility maintenance
- Flexible response of system in process change

With the aim of becoming **the best B2B Solution Delivery Center in Korea**, we are currently pushing to enter the Western market **based in Vietnam** to ensure that solutions developed in Korea are properly evaluated in overseas markets.



\* BSE(Bridge System Engineer)

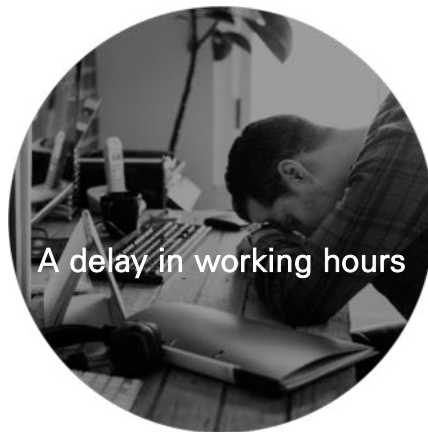
a Bilingual engineer that connects domestic and overseas development teams, understands the purpose and intention of the development project, communicates it to overseas teams, understands questions from overseas teams, and seeks answers from domestic teams

RPA (Robotic Process Automation) is a software program that automates simple, repetitive, quantitative tasks, contributing to creating a high-value business environment by enhancing the future value of individuals and companies.

### [AS-IS] Environment of simple repetitive tasks



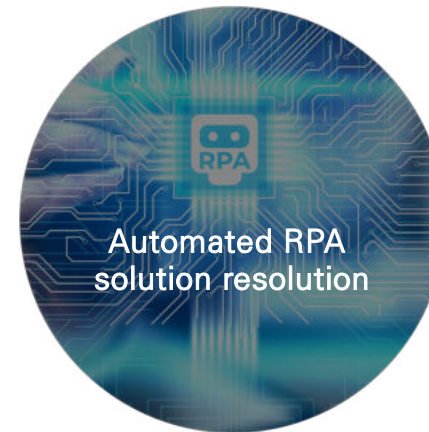
In the work environment, there are many simple repetitive tasks that are performed daily, and depending on individual abilities and conditions, they can affect the entire project.



Sometimes, delays in working hours can lead to situations where it is not possible to focus on high-value tasks.



### [TO-BE] Improving high-value tasks



If there is robot software program applied to the PC simple repetitive tasks can be solved through automated RPA solutions



Employees can focus on efficiently on high-value tasks, and create an environment that enhances the company's future value.



The majority of employees who have experienced RPA evaluate it positively, and **85% of global large companies are expected to introduce it.**

## Improvement of work efficiency before and after RPA application

Simple repetitive tasks  
(before application)



Job assignment



“Human Labor”

RPA 적용



Job recording



Editing and registration

Substitution of ROBOT tasks  
(after application)

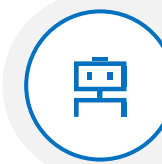


Job assignment



“Digital Labor”

## Key Functions of RPA



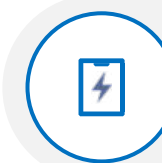
### Programmed S/W Robot

S/W Robot that mimics repetitive, regular work processes and performs them automatically



### Leveraging Existing IT Environment

RPA can be used without changes to the existing system and without the high cost of building new systems, allowing for rapid automation.



### Quick and Accurate Task Processing

RPA prevents human errors and improves work productivity and quality by enabling faster task processing.



### Alternative for Reducing Work Hours

RPA can be used as an alternative to reducing work hours as it allows for 24\*7 task processing.



### Enhanced Security and Safety

RPA prevents unauthorized access to sensitive data and helps prevent compliance errors.

**70%** of employees who have experienced RPA responded positively (Deloitte)

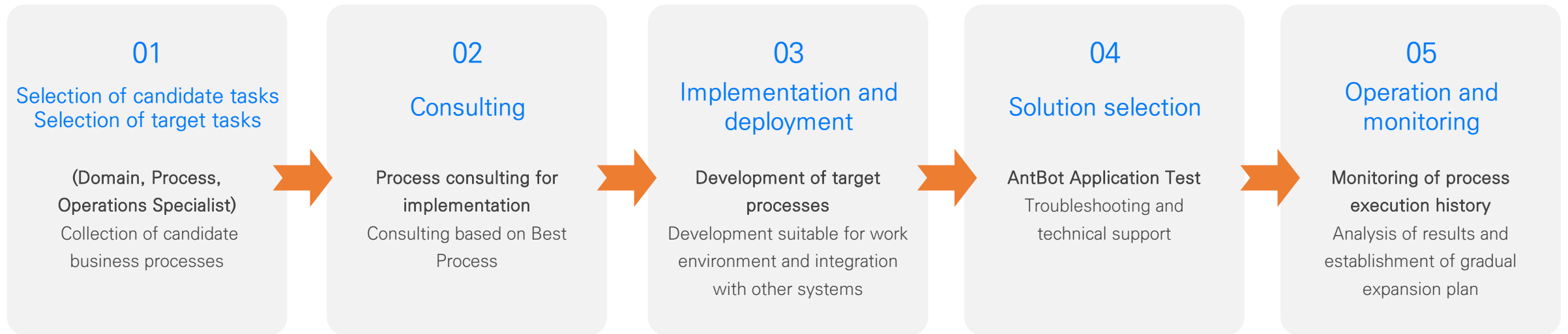
**85%** of large companies are predicted to introduce RPA by 2022 (Gartner)

The ROI of RPA is more than **10** times, and the implementation difficulty is at a level of **1/50** compared to ERP deployment. (Earnest&Young)

출처: EY, 23rd Annual CFO Roundtable Workshop

## 04. 5 steps for implementing RPA

There are five stages to consider when applying RPA, **which can be utilized across various industries**



## Large amounts of simple repetitive work are being actively applied by many **banks & finance, healthcare, and IT institutions**

### Bank

- Confirmation of contract
- Non-face-to-face account opening
- Anti-money laundering monitoring
- Information retrieval prior to loan execution
- a real estate collateral assessment
- Business closure/closing inquiry
- Automobile registration ledger inquiry
- Search for Bankruptcy Disclaimer Cases
- court mail scanning
- Transfer of bonds subject to card clearing
- Collection and registration of statistical data from the Financial Investment Association

### Insurance Company

- Insurance claims assessment
- Attachment of assets and liabilities (AOL) business
- Daily report on accident insurance claims status
- Management of insurance products/coverage details
- Verification of data output values
- Verification of civil/criminal trial schedule for insurance fraud
- Identification of customers eligible for debt collection
- Modification and review of product attribute values for private funds (PF)
- Preparation work before filing value-added tax (VAT) returns
- Extraction of data for generating customer guidance notes

### Credit Card Companies

- Approval of non-face-to-face account opening
- Verification of billing information
- Reconciliation of settlement data
- Non-face-to-face identity verification
- Corporate billing tasks
- Identity verification
- Personal review: Verification of real estate documents
- International card settlement
- Automation of VDI environment
- Notification of settlement results by affiliated companies

### Medical & Health

- appointment management duties
- Payment and verification of medical expenses
- medical insurance claims
- Medical institution report preparation work
- Patient management tasks, including appointment reminders and prescription based on patient status
- Medical data analysis and monitoring tasks

### Manufacturing

- Automate Invoice Processing
- Slips generation and forwarding instructions
- SAP Invoice Processing Operations
- Purchase and warehousing processing
- Export permit registration tasks
- Tax invoice upload work
- Product registration and verification tasks
- a daily business report

### IT & Network

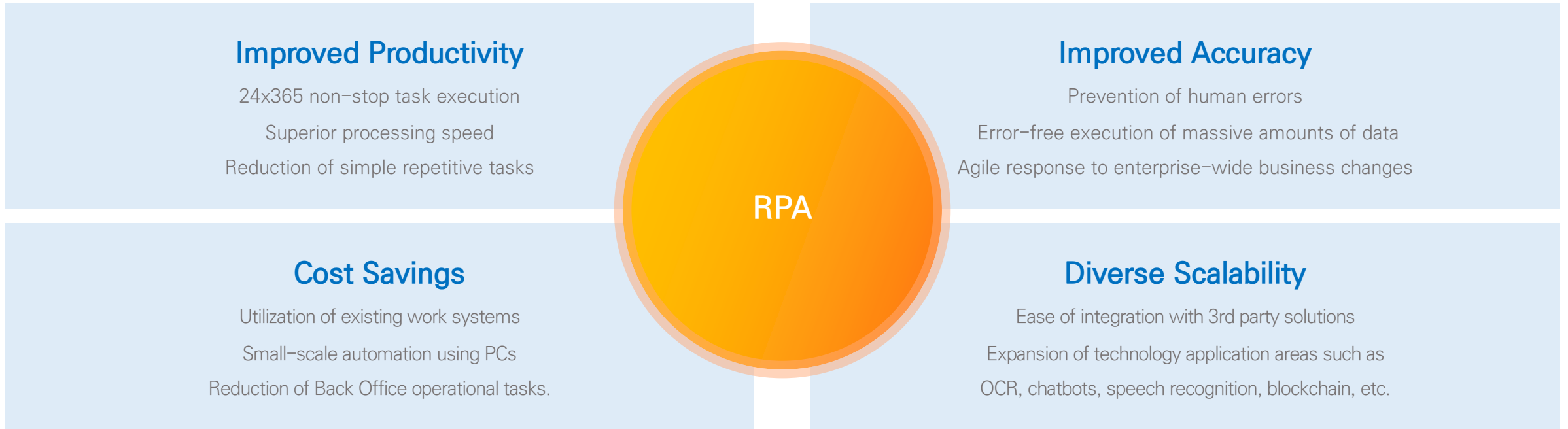
- Service alert management
- Automated system check/test
- Service desk management
- File system management
- Server/application monitoring
- Config management
- Active directory management

### distribution/ Local government

- Sales invoice processing
- Submit shipping inspection report
- distributors and branch offices
- overtime drafting work
- Download and enter accounting management data
- Receiving and processing official documents
- Management of maturity date transactions
- Corporate SWIFT duplicate inspection work

## 05. Expected effects of RPA

RPA is expected to have **low implementation costs**, rapid implementation, and **high ROI utilizing existing IT infrastructure**



**RPA implementation reduces work hours and maximizes efficiency and productivity.**

We have artificial intelligence–based automation expertise, document verification patent technology, first/most deployment experience, and unstructured data processing expertise to ensure successful performance of AI–based business automation.

01

### AI–based Automation Technology

We have our own automation technology based on AI and RPA.

02

### Korea's first patent technology to verify documents

We can automate tasks that require AI by automatically verifying the accuracy of AI inference results by dividing them into AI patent technologies.

03

### Korea's First/Most RPA Deployment Experience and Reference

With the launch of the first RPA solution in Korea, we have carried out the largest business process automation project in Korea.

04

### Experts in handling unstructured data

Specialists in processing unstructured data can help customers automate and internalize unstructured business operations



We have successfully carried out the RPA construction project of its customers based on its extensive experience in RPA construction and systematic technical support.

### RPA Capability

**Expert differentiation, true core value based on know-how**  
(Core Value)



- Is there a Talent for RPA deployment capability and problem solving?
- Do they have expertise and know-how?

**Specialized competitiveness**  
(Competence)



- Does the workforce have insight into the customer's RPA system?
- Does the workforce have knowledge of the industry?

**Assets accumulated from experience**  
(Asset)



- Do they have years of experience in the work?
- Do they have evolved and proven assets?

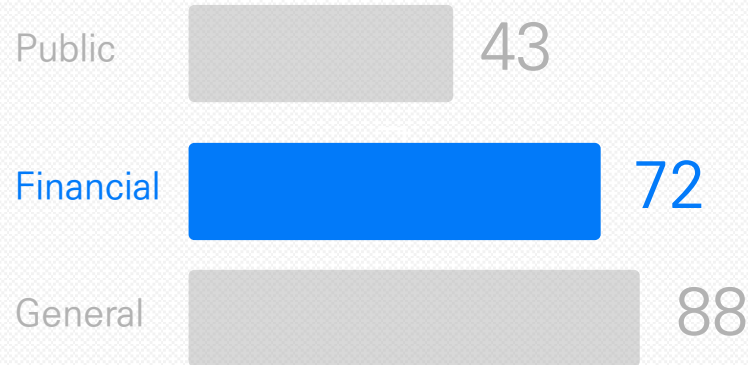
## 06. Features of our RPA (3/3)

### High understanding of work

- No additional time to understand the business  
→ Getting to work quickly
- Clear understanding of To-Be appearance  
→ Opening systems without loss of goals
- Clear understanding of RPA deployment  
→ Minimizing development/test trials& errors
- Execution based on Biz & organizational characteristics  
→ Customer-optimized performance
- Proactively identifying possible issues & risks  
→ Optimal response by project context

### Proven RPA solution

- Performing the most RPA deployments in Korea  
(203 times in total)



### Experience

- RPA Deployment in Financial Field
 

NH NongHyup Bank	IBK Bank
BNK BuSan Bank	DGB DeaGu Bank
KB Kookmin Bank	Hana Bank
Kyobo Life Insurance	Technical Assurance Fund
- Consulting Project in Financial/Public Field
 

RPA Company-wide Promotion Consulting of KEPCO
RPA Company-wide Promotion Consulting of K-WATER
RPA Construction Consulting for BNK
RPA Construction Consulting for LH

### Operating the 'RPA Technical Support System' in the event of various problems



## AI Service

### RPA

- Solution for Automation of Business Process
- Provides automation with OCR for documents for areas that can be performed automatically throughout the job

### AI OCR

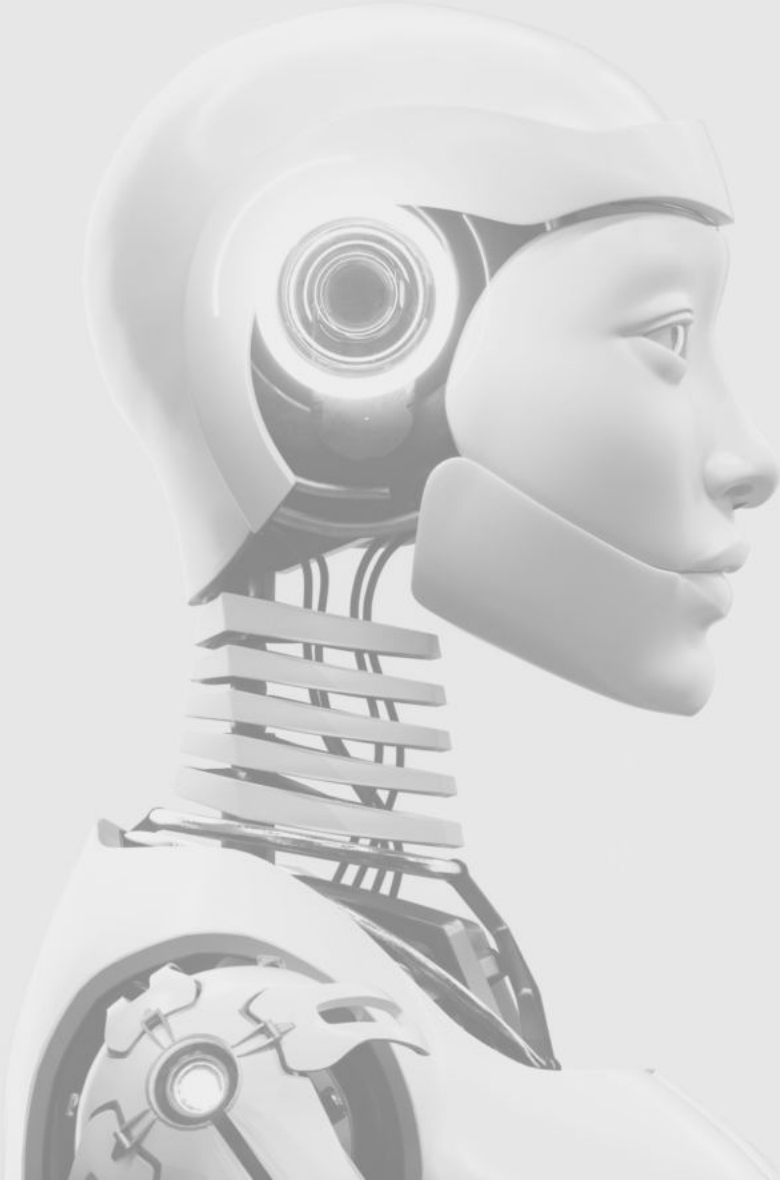
- AI-based document learning tools and service models for OCR
- Automated classification, analysis, extraction, recognition and verification of key documents used in the business

### AI Platform

- Micro Service Architecture-based artificial intelligence platform
- Provides the foundation for rapid building, deployment and operation of artificial intelligence services in an On-Premise environment

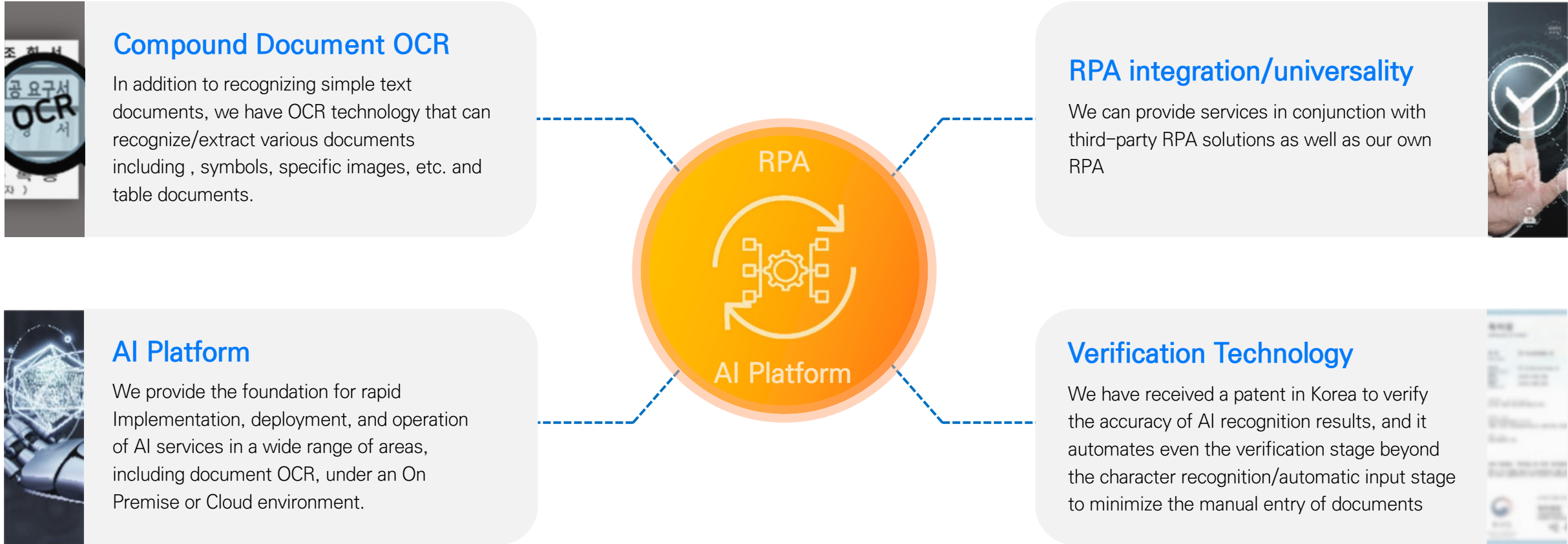
### Build

- Building an AI platform and document automatic recognition system
- Learning and creating a new AI service model for OCR of demanded documents



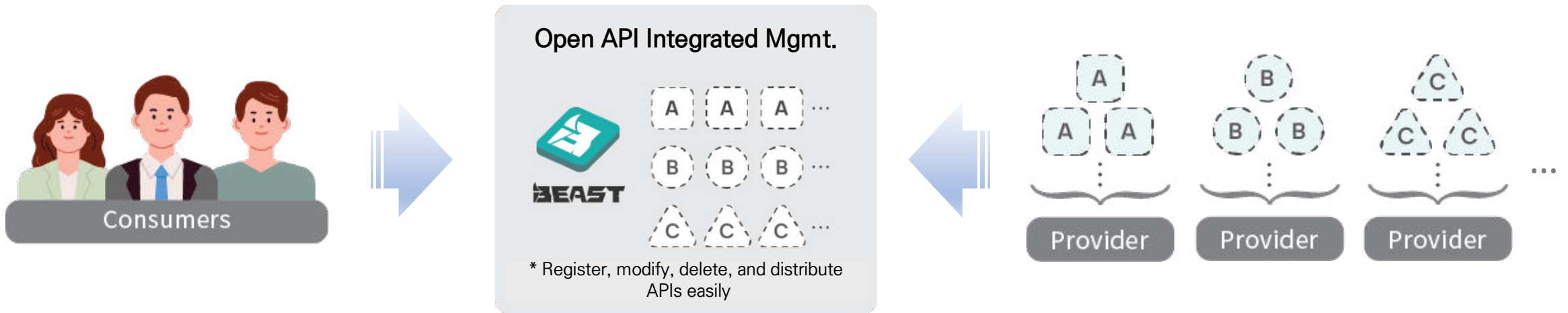


We are providing an environment that enables optimal unstructured document processing through the industry's only automated verification technology, micro-service architecture-based AI platform, and automation technology.



## BEAST

BEAST is an **API integrated management solution** based on Open API standardization and MSA-based service development universalization, and users can **freely use multiple APIs provided by Providers** through BEAST API Gateway.



## BEAST

BEAST offers API Lifecycle management, API DevOps realization, integrated control/monitoring and easy custom handler UI at once.



- ✓ API/Service Registration Management
- ✓ Deployment/Approval Management
- ✓ Certification
- ✓ authorization
- ✓ API Routing
- ✓ Traffic Control
- ✓ Load Balancing
- ✓ Circuit Breaker
- ✓ Monitoring
- ✓ real-time control
- ✓ Log Tracking
- ✓ Developing Custom Handler
- ✓ Providing BEAST Web IDE

- Easy API Lifecycle Management
- Optimized handling of high-capacity of traffic
- Real-time control through monitoring and trend analysis
- Fast anomaly detection and fault prevention
- Custom Handler Development by Domain through users' own Web IDE

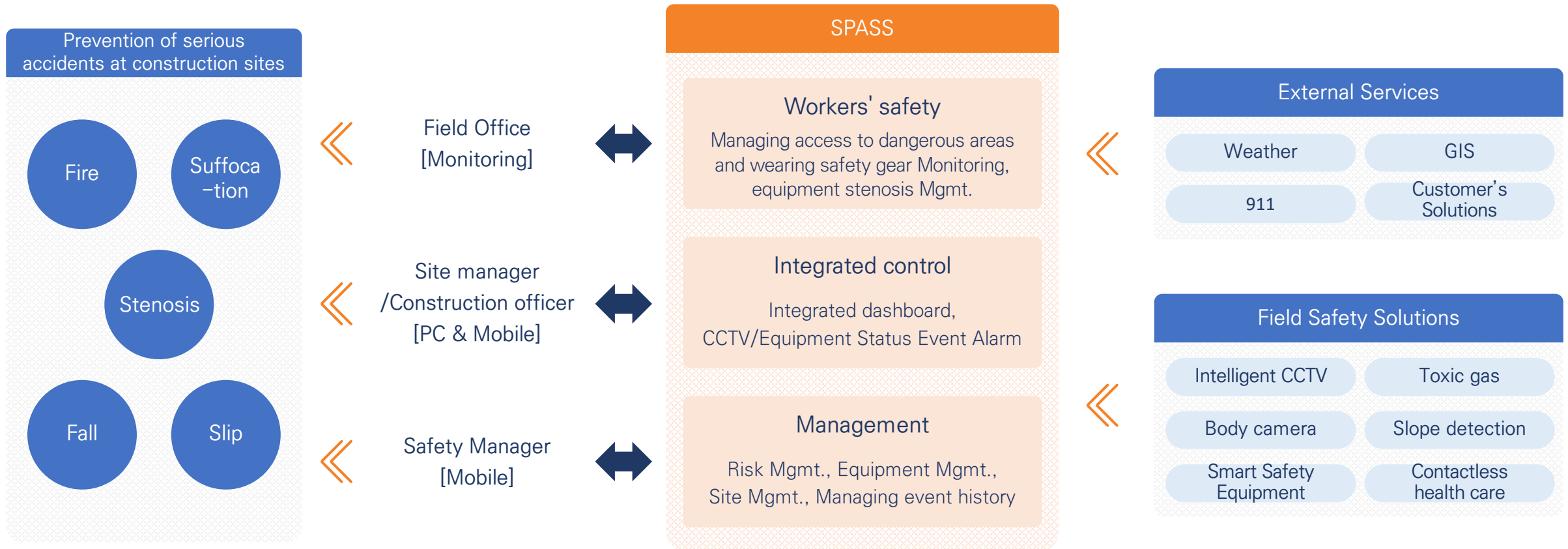


### Application Field

- ✓ Enterprise internal systems
- ✓ Large-scale system integration project
- ✓ Microservice (MSA) Project
- ✓ Healthcare: Insurance
- ✓ Financial My Data

## SPASS

SPASS is a smart construction safety solution that selects and manages daily critical risk work at construction industry sites and predicts/prevents construction safety accidents.



## SPASS

Serves as a control tower for serious accident prevention activities and helps workers' lives and employers fulfill their obligations.



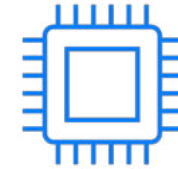
### Field manager

- Provides customized monitoring services
- Provides on-site process and safety management productivity
- Provides a simple and varied chart of reports



### worker

- Maximizes workers' stability
- Compatible with multiple devices (PC, mobile, tablet, etc.)

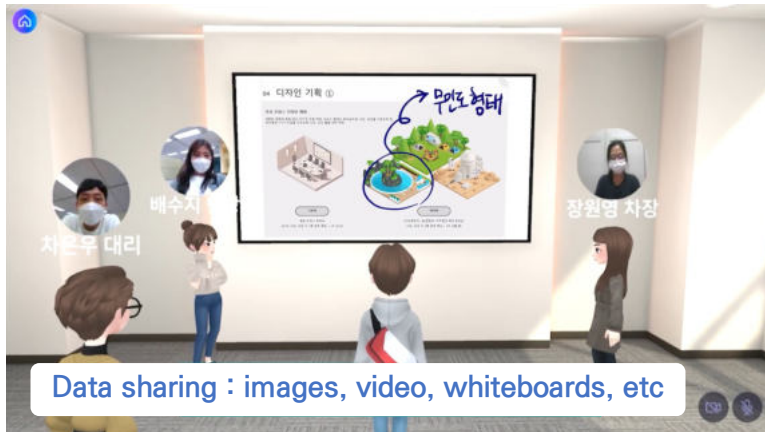
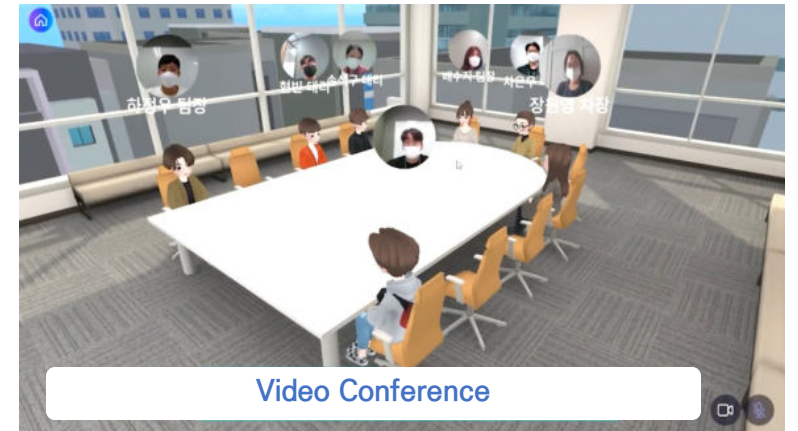
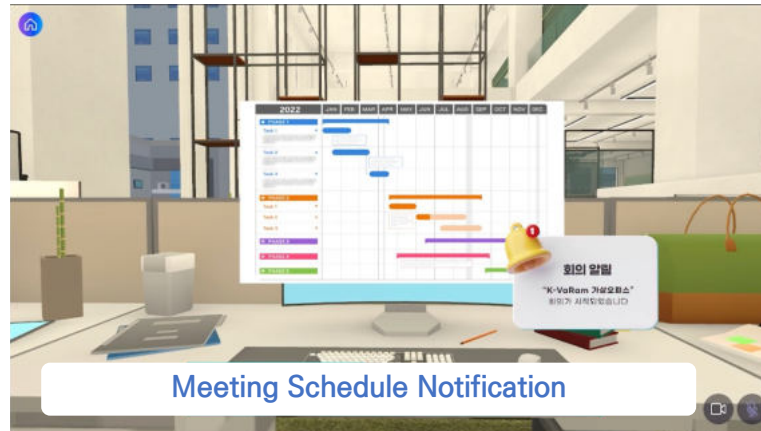
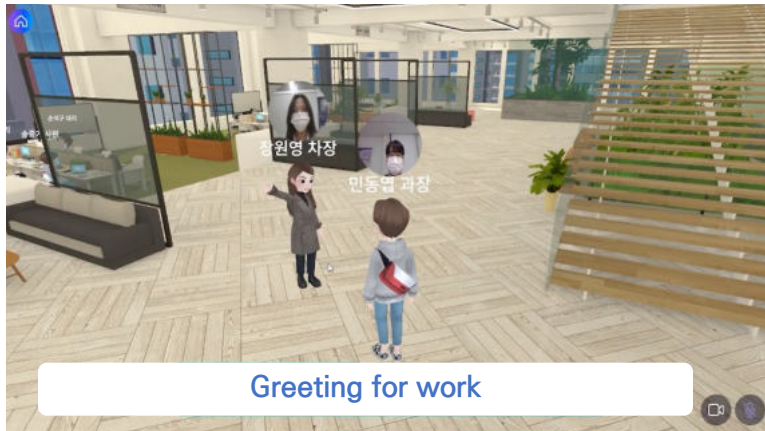


### Person in charge of Mgmt.

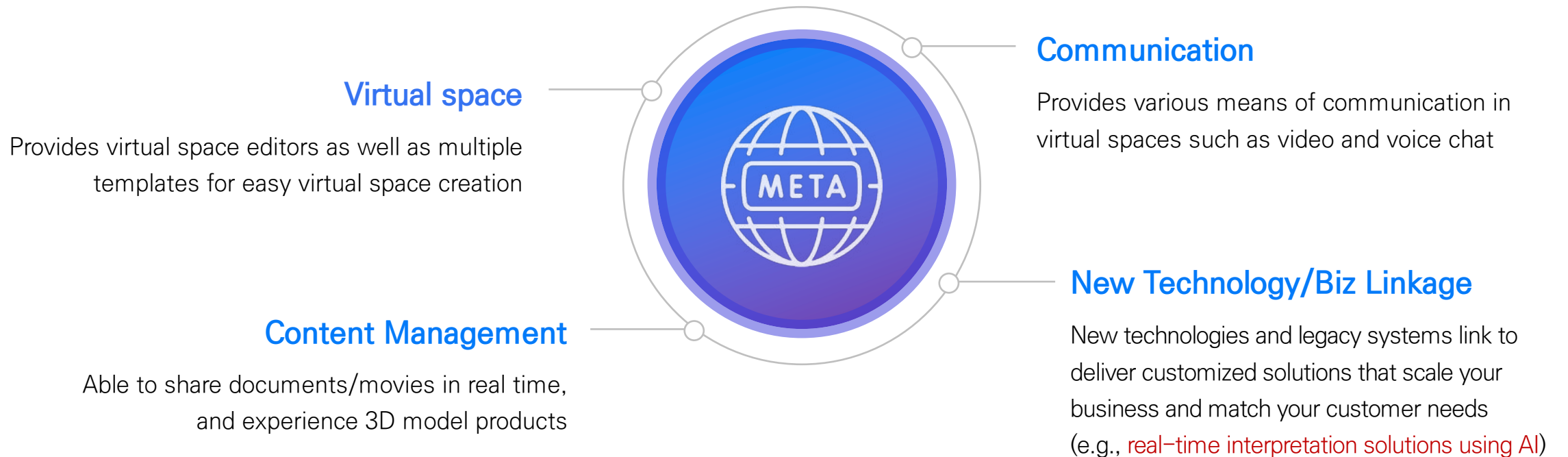
- Flexible integration with headquarters systems
- Improves safety management efficiency through integrated service delivery
- Service provision through safety Mgmt. fee items can respond to the Serious Accident Punishment Act

## Virtual Office

Supports task/schedule tools that increase work productivity and communication tools that enable remote collaboration, and provides a variety of imaginative metaverse spaces.



## Virtual Office



## K-VaRam

A Ready-made B2B metaverse solution that connects the real world to the virtual world for the needs of the enterprise

### Development case using K-VaRam solution



▲ Company E's educational metaverse



▲ Company K's B2B Metaverse Platform

#### Frontend Service



Space studio



Avatar Studio



Content Viewer



Communication



Spatial connection



Standard controller

#### Ready-made Backend Service



Edu-Tech.



personalized marketing  
Target AI



economic system



RPA



AI supervisor  
ARGOS

#### Backend Management



Space Mgmt.



Avatar Mgmt.



Access Control



Authorization  
/Authentication



Content Mgmt.

#### Infrastructure



Cloud Container



N/W Synchronization



Headless Server



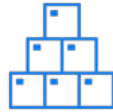
Media Server



AI - Big data



## K-VaRam's Features



### Package Configuration

Advanced, scalable metaverse environments can be configured with additional packages that provide the capabilities your customers require outside of the basic package



### Space, Avatar Studio

can be configured in the form that the user wants through the use of templates by type, and simulation support using the preview function is provided



### Mass Concurrent Connections / Multi-Channel Synchronization

Channeling allows bulk CCUs to be accommodated, and any channel can be synchronized with the administrator channel, making it ideal for large events, lectures, etc

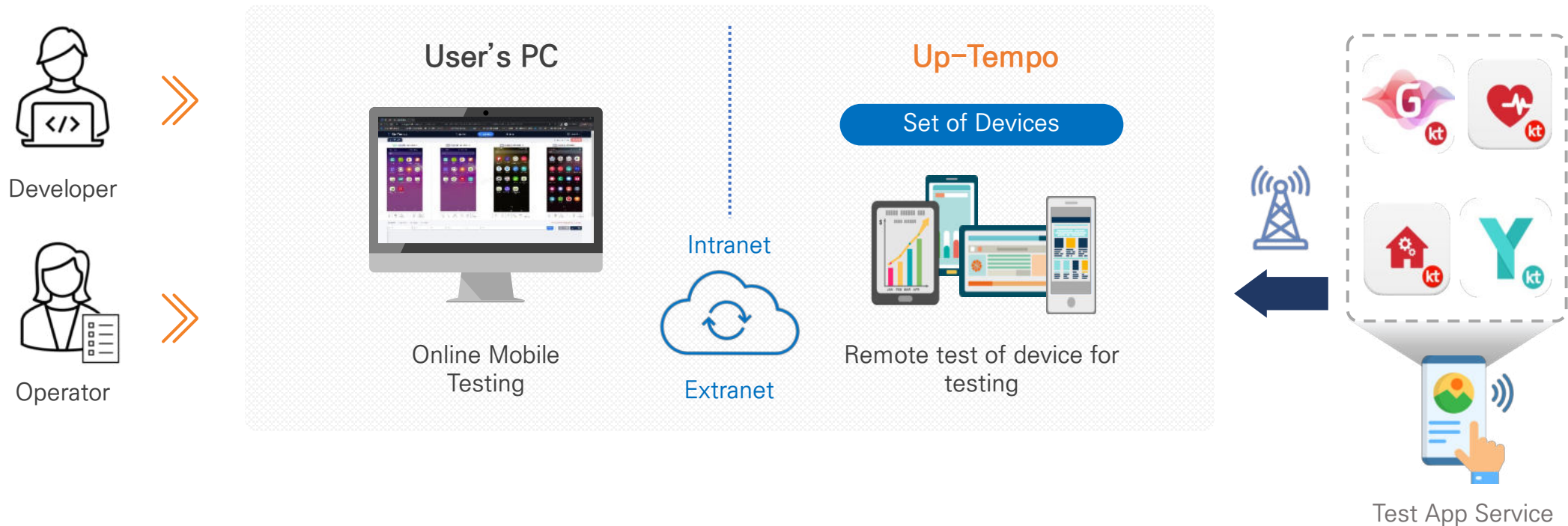


### Various Communication

Able to control commands such as avatar animation commands and location controls through chat functions, and provides whiteboard creation and sharing during video conferencing.

## Up-Tempo

Supports non-face-to-face testing, allowing users to perform tests and checks online as if they were using a real device.



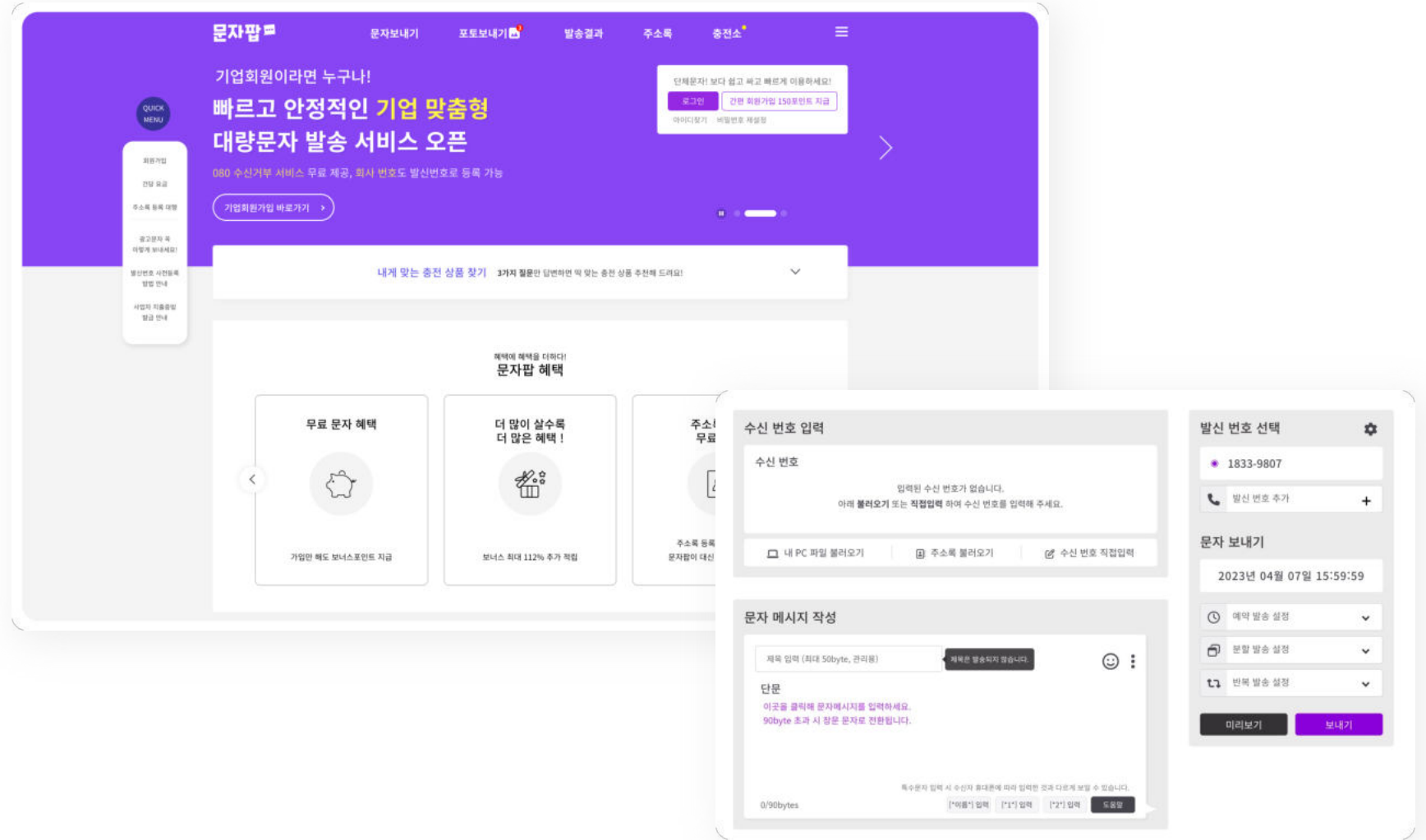
- Supports for test environment by terminal type(device and OS)  
: Android/iOS support using terminals managed by Service Verification Center(approximately 1,000 units)
- Provides non-face-to-face testing to users(e.g., business/development/development companies) via online access : <https://up-tempo.ktds.com>

## Up-Tempo

- Offers remote test experience as if you're testing a device with your hands
- Installs applications under development/ test and controls smartphones through buttons
- Provides functionality for checking VOCs & defects such as screenshots and log extraction



## MUNJA POP



- Easy and fast text sending site that allows you to send group and mass text messages in just a few clicks from the website.
- Lowest-priced text messaging platform in Korea providing text messaging services specialized in advertising and marketing.

## MUNJA POP

### Super-simple membership

Able to sign up easily and quickly by simply entering your mobile phone number and password.

### Free Points Offered

Receiving bonus points just by signing up for a new subscription.

### Convenient Address Book Features

Able to easily transfer the number stored on your phone, and use free address book registration service

### Providing the lowest price for LMS/MMS

Able to send text messages at the lowest price  
Up to 55% off

### Direct connection to 3 mobile carriers

Enables high success rates and fast text messaging.

### All industries, okay!

Excellent for mass sending group text messages and offering a free 080 denial-of-service.

### Can be sent by Excel upload

Group text messages can be sent easily by varying the text content for each recipient.

### Re-enable points immediately for failed message

Failure cases are automatically redeemed 100% and can be used indefinitely without the point expiration date

### Offers the result in real time

Able to send messages in real time and view the results at the same time

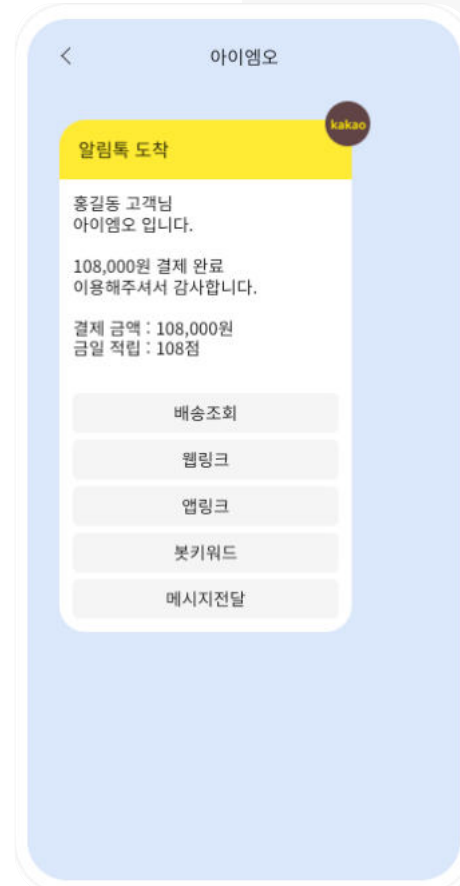
### NEO SYSTEM

- Available in many forms, depending on the needs & environment of enterprise customers and fast and secure as it is sent through its own servers.



### NEO SYSTEM

- You can send both text and Kakao Talk with NEO SYSTEM.



### Text

- B2B Dedicated SMS/LMS/MMS Service
- Support for integrated modules for client's environment
- Offers results reports and detailed statistics screens

### Kakao Talk

- Sending a message to Kakao Talk users through the Kakao Talk channel
- Notification Talk(Alim Talk) : Sending an informational message to all Kakao Talk users
- Friend Talk: Sending advertising messages only to users who have added Kakao Talk channels
- If the notification message fails to be sent when the resend function is selected, it can be sent immediately by text message

## Alim Talk / Friend Talk

- Service that sends messages to Kakao Talk users through Kakao Talk channels.
- Kakao Talk Biz Message is divided into two services, Alim Talk and Friend Talk, depending on the target and content of the message.



▲ Kakao Alim Talk



▲ Kakao Friend Talk  
(Text Type/Image Type)



▲ Kakao Friend Talk  
(Wide Type)



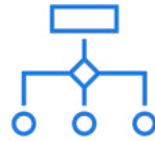
### Alim Talk / Friend Talk

#### 1. Cost savings



- Able to reduce costs by more than 70% when switching from LMS to Alim Talk (equal text length provided)
- Billing only for successful cases

#### 2. Integrated Messaging System



- Providing Kakao Talk/Text message integrated solution with a single sending program (Agent)
- Building integrated messaging systems tailored to your environment
- If KakaoTalk sending fails, alternative text messages are automatically resent
- Providing additional services such as the Web Administrator Center

#### 3. Thorough failure response



- Redundant transmission systems

#### 4. Strong security system



- Encryption processing between customer – IMO – Kakao Talk server
- All personal information and data are encrypted and protected

#### 5. Proven service delivery



- Mobile Services Specialist with 20 Years of Experience
- Selected as Kakao Talk Special Dealer



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