



COMPANY PORTFOLIO

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(last 3 years)

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Overview

1.1 Company Overview

1.2 History

1.3 Organizational chart

1.4 Financial Position

1.5 Awards and certifications

ICT company that provides Total IT Solution through advanced insights and professional technology research and development.

Company name	Gaeasoft Corp.
Establishment date	August 13, 1998.
CEO	Youngjun KIM
KOSDAQ Registration Date	May 18, 2002.
Index Announcement Sector	KOSDAQ IT General · IT S/W&SVC · Software
Homepage	www.gaeasoft.co.kr
Business Area	Develop and Operate Smart IT Services · Cloud & IoT Solutions Value Added Telecommunications · Marketing and Advertising Business

Company
establishment

24

Solutions &
Services

400⁺

Patents &
Certifications

91

Awards

13

Gaeasoft started with LBS/GIS services in 1998 and has grown into a key IT partner in the domestic telecommunications sector, and continues to grow as a New ICT company that connects people and technology through constant challenges and innovation.

We have commercialized more than 400 IT services in various industries such as telecommunications, distribution, and public, and our goal is to provide customers with successful business and new future value through innovative enterprise solutions.

Gaeasoft's stable and innovative IT technology is recognized by various organizations, and we are securing new intellectual property competitiveness in the global market.

Gaeasoft's creative and technical skills have been recognized for its value by winning several awards at the Innovation Awards and Global SW Contests, which select the most innovative and excellent sites.

Overview History

Since its establishment in 1998, we have commercialized IT services to various industries through constant challenges and innovation.



지어소프트
GAEASOFT

1998

- May 1998. Established Gaeasoft Corp.
- May 2002. Listed on KOSDAQ
- September 2009. Merger with Digital Ocean and changed company name
- March 2013. Changed company name (Gaeasoft)

2017~

- Oasis wired/wireless online mall construction and operation maintenance
- AI platform service construction and interworking development (other than NAVER)
- Established a citizen-centered big data sharing platform for Seoul
- Advancement and operation of Ministry of Trade, Industry and Energy administrative information system
- Build and operate KT membership and My KT app
- LGU+ LBS and other infrastructure advancement and operation maintenance
- LGU+ service advancement and operational maintenance

2021

- AI platform service construction and interworking development (other than Naver)
- KT search platform and AI chatbot development and maintenance
- Starbucks Korea mobile enhancement construction and operation maintenance
- Oasis wired/wireless online mall construction and operation maintenance
- Establishment of Oasis delivery system and logistics system
- Ministry of Trade, Industry and Energy administrative information system operation
- Renewal of visitkorea, Korea Tourism Organization
- Predicting solar power generation and failure using AI for a government project

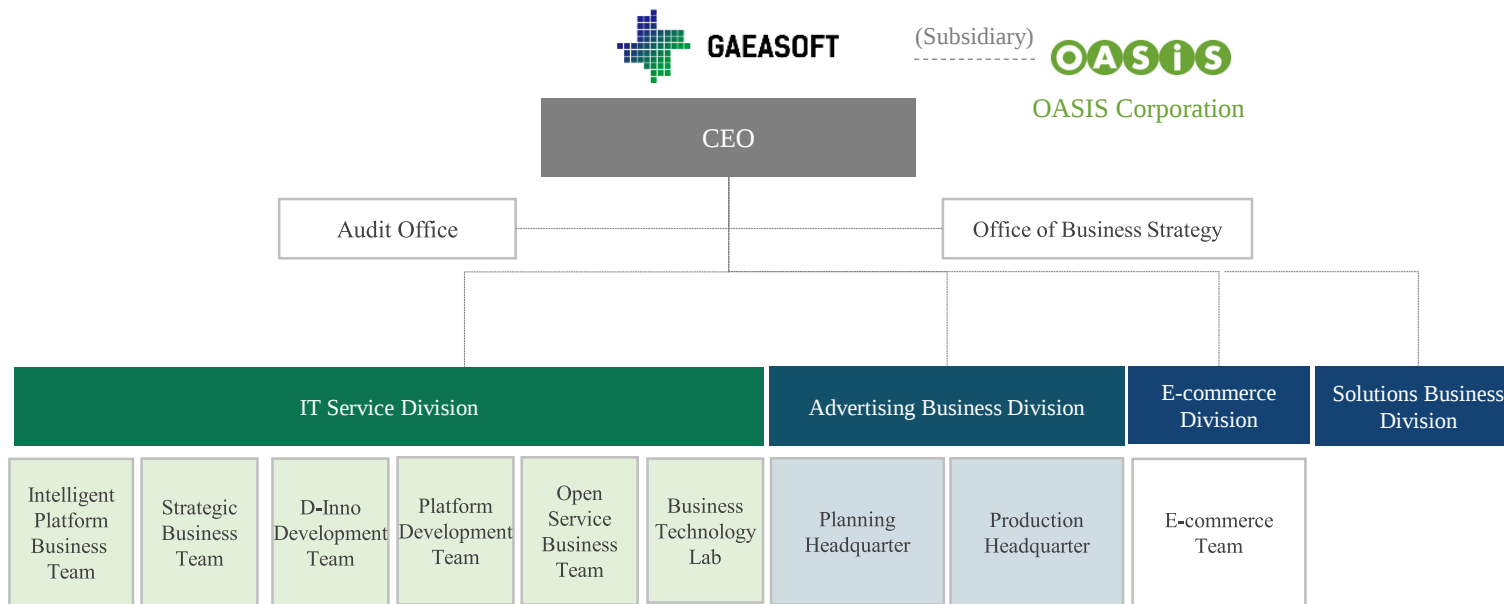
2022 ~

- Building the Starbucks Delivers delivery service
- Improved Starbucks Siren Order usability and developed MD sales system
- Enhanced Starbucks Rewards coupon and Starcode functionality
- Starbucks in-store food quality control system
- Maintained Shinsegae Food web operation
- Built K2 Korea online integrated shopping mall
- Established Oasis AI-based unmanned store service
- Maintained operation of KT integrated search platform
- KT Online Customer Experience Innovation Project
- KT .COM development and planning operation
- Established SKT subscription economy service
- Established Terarosa e-commerce system and wired and wireless services
- Maintained the website of the 2030 Busan World Expo Bid Team
- Renewal of VisitKorea website of Korea Tourism Organization
- Established and serviced iTalkbiz messaging service
- Established Live Bingsong platform (Oasis, KT Alpha, Kim's, etc.)

Overview Organizational chart

Comprised of a group of experts with a total of 110 people specializing in IT & Media

Organizational chart



Workforce for IT Services and E-Commerce Solutions

91

people

※Based on full-time positions
(as of August 2023)



Overview Financial Position

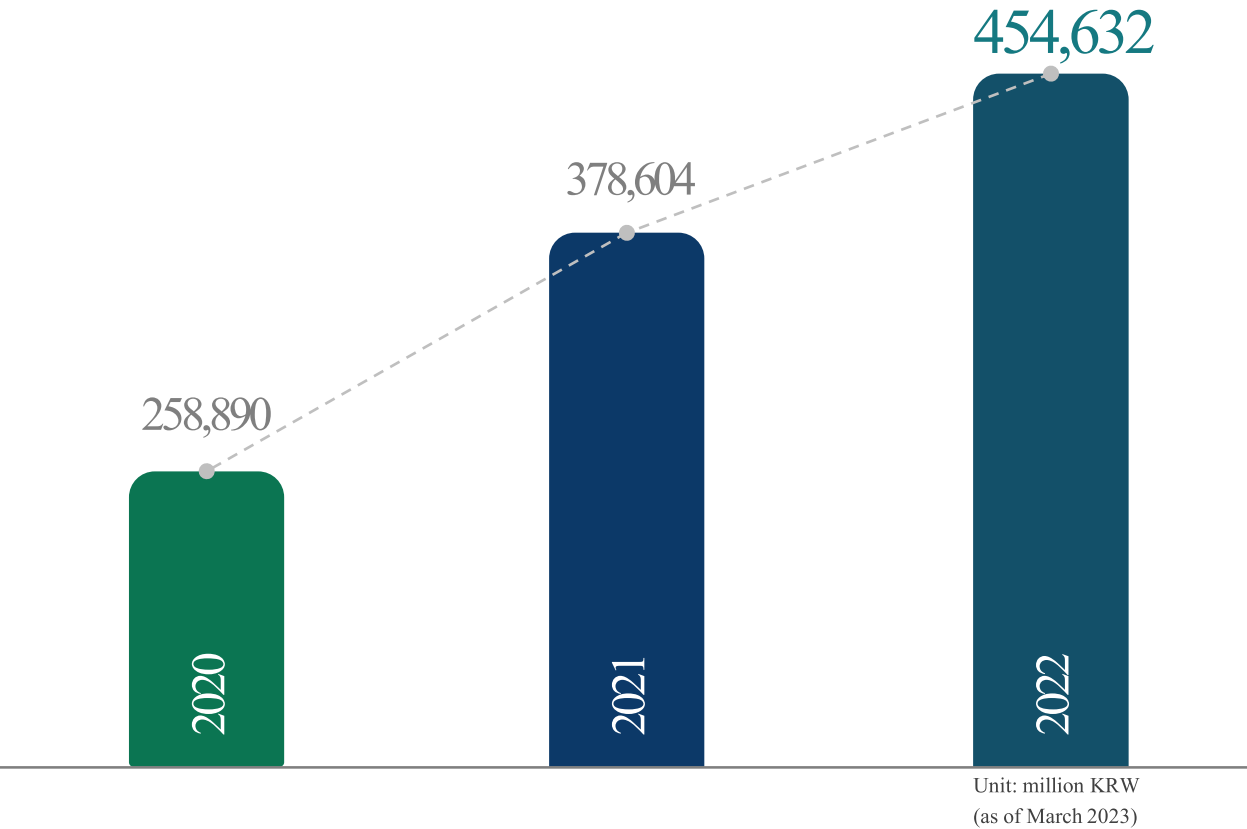
Maintain a stable, healthy financial position with consistent revenue growth

Financials for the last 3 years

(Unit: million KRW)

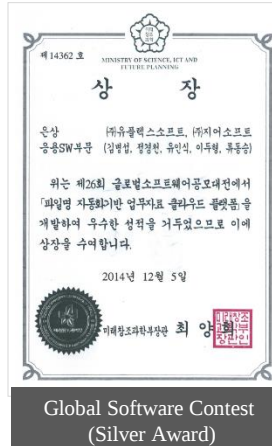
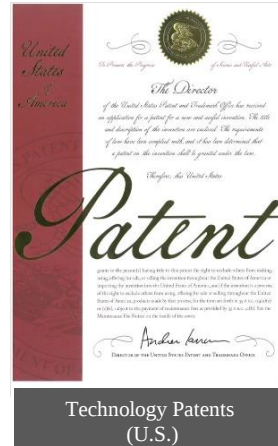
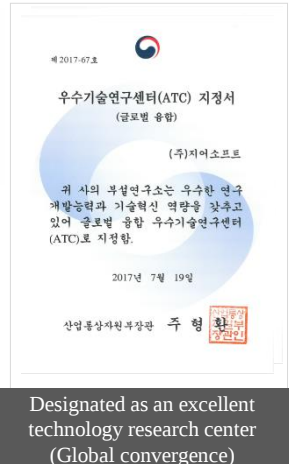
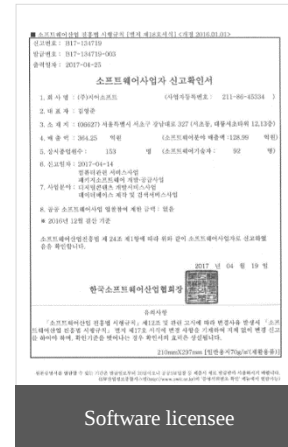
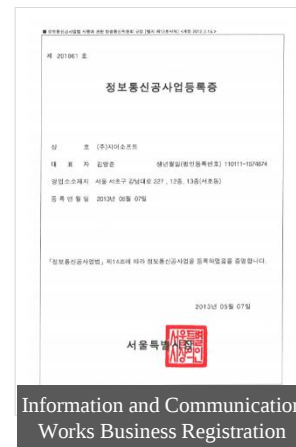
Classification	2020	2021	2022	Total
Capital	7,287	7,287	7,737	22,312
Total assets	107,005	228,994	291,481	627,480
Equity capital	22,837	106,160	183,100	312,096
Current liabilities	42,462	81,878	61,021	185,362
Fixed liabilities	41,706	40,956	47,360	130,022
Current assets	80,569	148,321	190,286	419,175
Current net income	9,724	8,001	-4,387	13,338
Sales	258,890	378,604	454,632	1,092,126

Sales for the last 3 years



Overview Major certifications/awards/patents

IT technology and enterprise value are recognized by various organizations and we have global intellectual properties.



02

Business

2.1 Business Area

2.2 Core Competencies

2.3 R&D Business

2.4 Product introduction

2.5 Client company

Total Smart Business Service prepared for your success

01 Business Consulting



Business strategy consulting
by analyzing/diagnosing
client's business

02 IT Service Outsourcing



Provide the best business
with stable and systematic
IT service operation/management

03 Solution Business

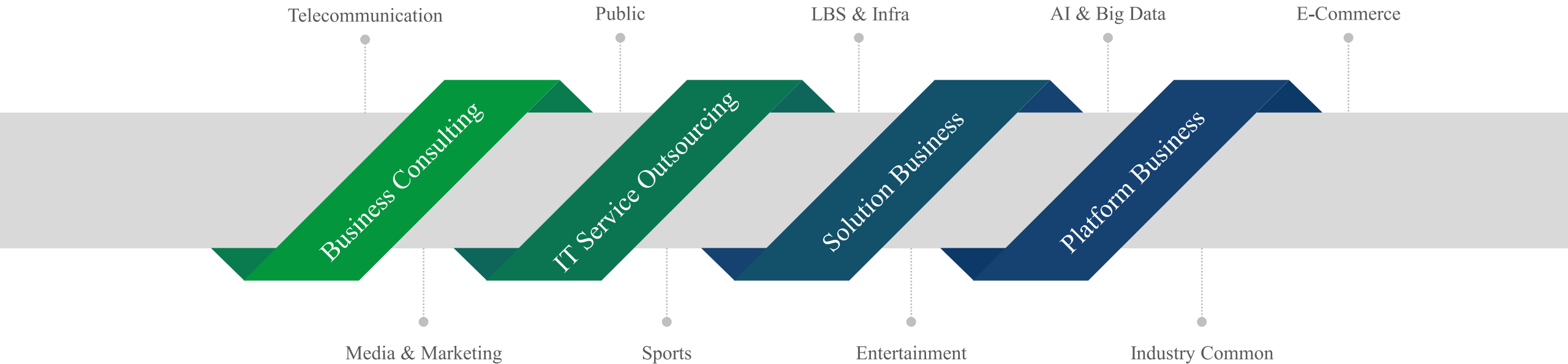


Delivering the right solutions
to make client's business
more competitive

04 Platform Business

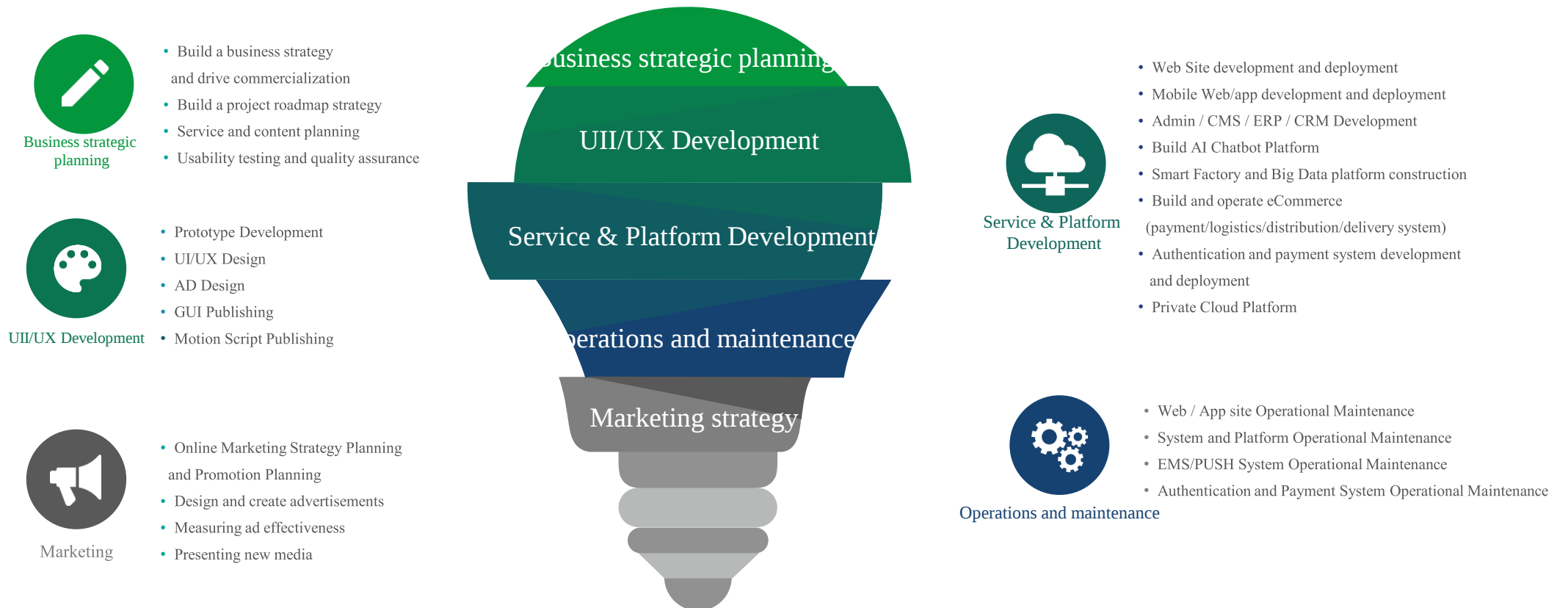


Provide methodologies and technologies
to build the platform client's business needs

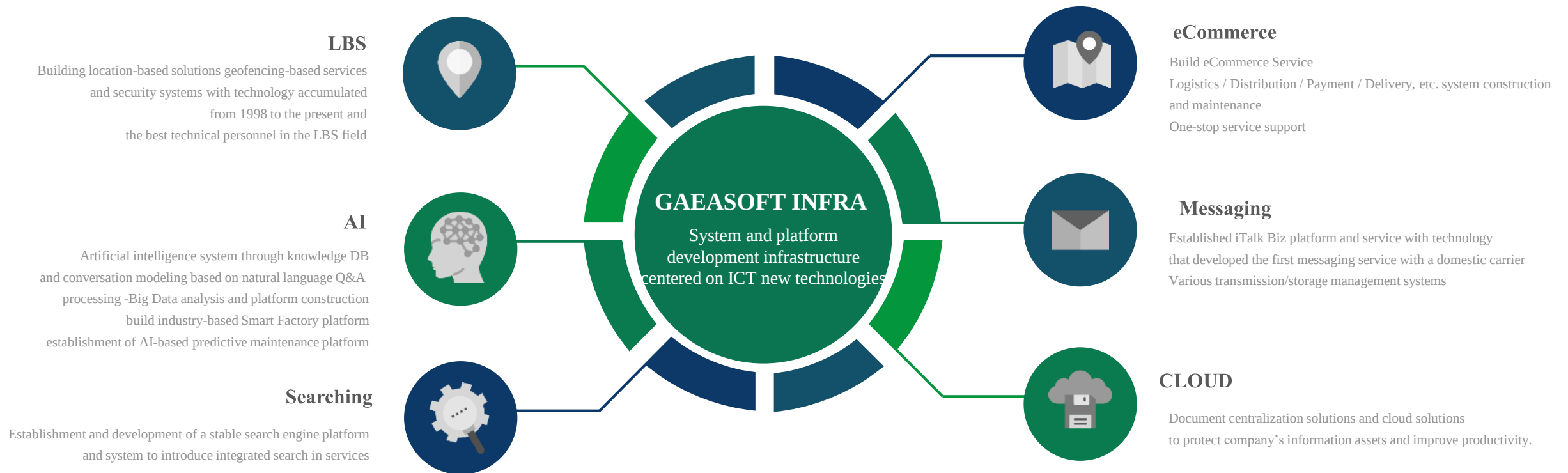


Business Core Competencies (1/2)

An organization composed of IT professionals who present specialized know-how for each task through the execution of various business projects



Our representative technology infrastructure that introduces continuous technological innovation



Continuously conduct innovative R&D to develop new technologies and innovate products

Civilian Intelligence Information Service Expansion Project

"Development of intelligent power/communication cable remote management service using deep learning technology"

- Organizer: National IT Industry Promotion Agency
- Project period: Apr. 01, 2020 – Dec. 31, 2020(21 months)
- Business scale: KRW 1.14 billion

ATC Business Global Convergence Area

"Development of intelligent big data cross-platform that supports customized search and recommendation based on document centralization of research organizations and integrated utilization of global open data"

- Organizer: Korea Evaluation Institute of Industrial Technology
- Project period: Apr. 01, 2017 – Dec. 31, 2020(33 months)
- Business scale: KRW 2.34 billion

Big data flagship leading business

"Building an Intelligent Manufacturing Big Data Analytics Platform for SMEs"

- Host: National Information Society Agency
- Project period: Jun. 28, 2018 - Follow-up private projects are underway after completion
- Business scale: KRW 610 million

Solar power generation prediction and fault diagnosis and detection business using AI

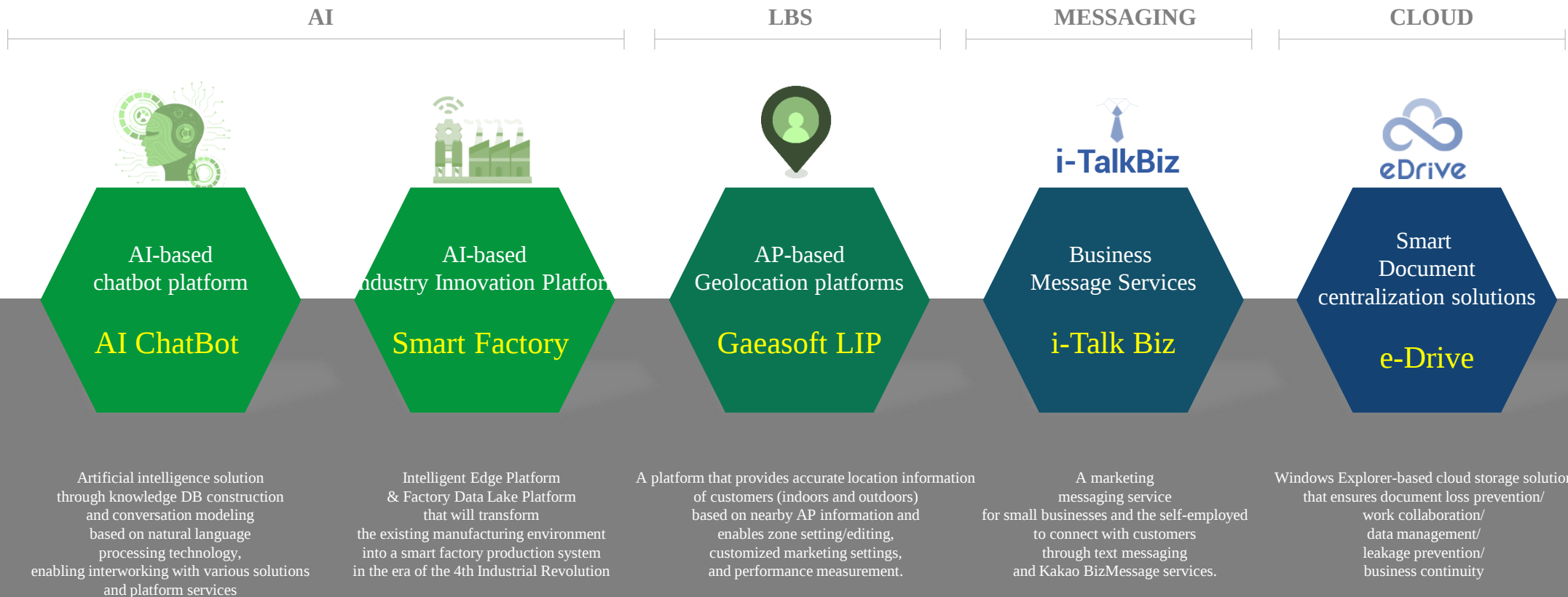
"SmartFactory and future power business technology development using AI"

- Organizer : KETEP & Dasstech
- Project period: Sep. 01, 2021 - Ongoing
- Business scale: KRW 1 billion



Business Product introduction

Business product with the highest competitiveness based on many years of development experience and technology



Delivering IT service technology to the best customers, from private to public sector clients



03

Portfolio (last 3 years)

3.1 Corporate Business

3.2 Mobile communication business

3.3 Public Works

3.4 Government (R&D) Business

Corporate Business

Oasis Online Store

Wired and wireless online shopping mall, logistics and distribution system construction and operation and maintenance project for offline Oasis stores



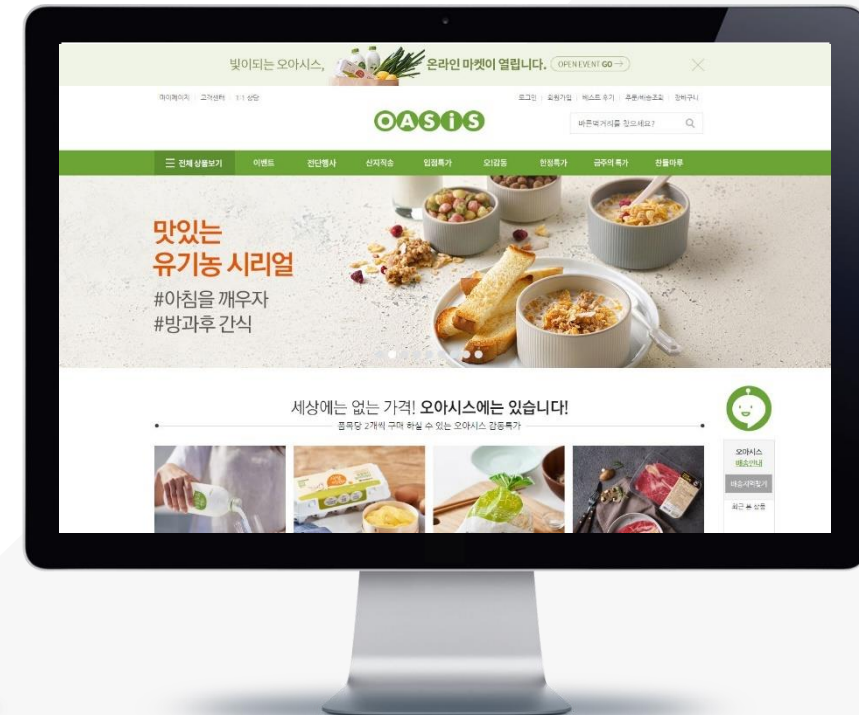
~ Ongoing as of 2023

Ongoing projects since 2014



Key enforcements

- Performing operational maintenance for Woori cooperative shopping mall since 2014
- Expanded and upgraded all wired/wireless channels to Oasis in 2018
- Marketing/PR messaging channel upgrade in 2018
- Established Delivery Manager App in 2018
- PC Web / Mobile Web / Mobile App channel operation maintenance
- Build and maintain logistics system and distribution system
- Developed Oasis logistics mobile automation system in 2019, upgraded Oasis CMS,
- built delivery service platform, platformized Oasis, built next-generation CMS based on MSA in 2020,
- system stability and app function improvement project, built chatbot
- Development of regular delivery function in 2021, Oasis PG server construction
- and certification audit project, Oasis I S M S certification, Oasis live commerce platform construction
- Established Kim's Oasis and Oasis Alpha Mall from 2022 to present



Planning/
Marketing Strategy



Design



Development/
Deployment



Operational
maintenance

Portfolio Major Business Performance (within 3 years) | Corporate Business

Corporate
Business

Starbucks advancement project

Global food and beverage brand's service enhancement projects / Building and enhancing delivery services in line with the trend of contactless consumption



~ Ongoing as of 2023

Ongoing projects since 2017



Key enforcements

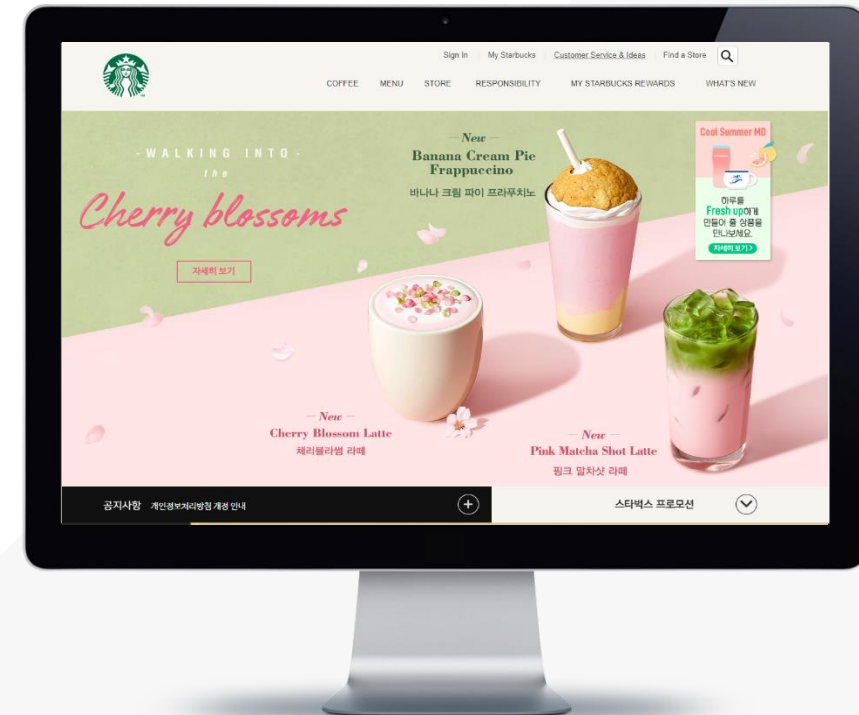
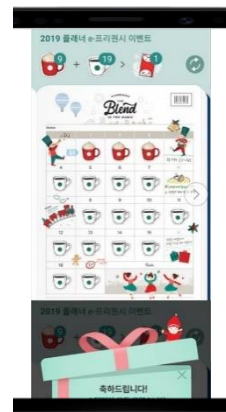
- Online channel operation and advancement since 2017
- PC /Mobile Web, Mobile App channel development maintenance (~2020)
- Non-member order development, Express DT development
- UX renewal
- Establishment of a dedicated shop for e-gift items
- Establishment of new store management system
- Build and upgrade on-demand delivery service
- Build online store pre-order service



Development
/Deployment



Operational
maintenance



Portfolio Major Business Performance (within 3 years) | Corporate Business

Corporate Business

Build and enhance/maintain Terarosa distribution logistics systems and customer service

Build and upgrade integration from back office to customer service mall, including distribution/logistics/CMS, etc.



December 2021 - present

After completion of deployment, advancement projects and operations are underway

Key enforcements

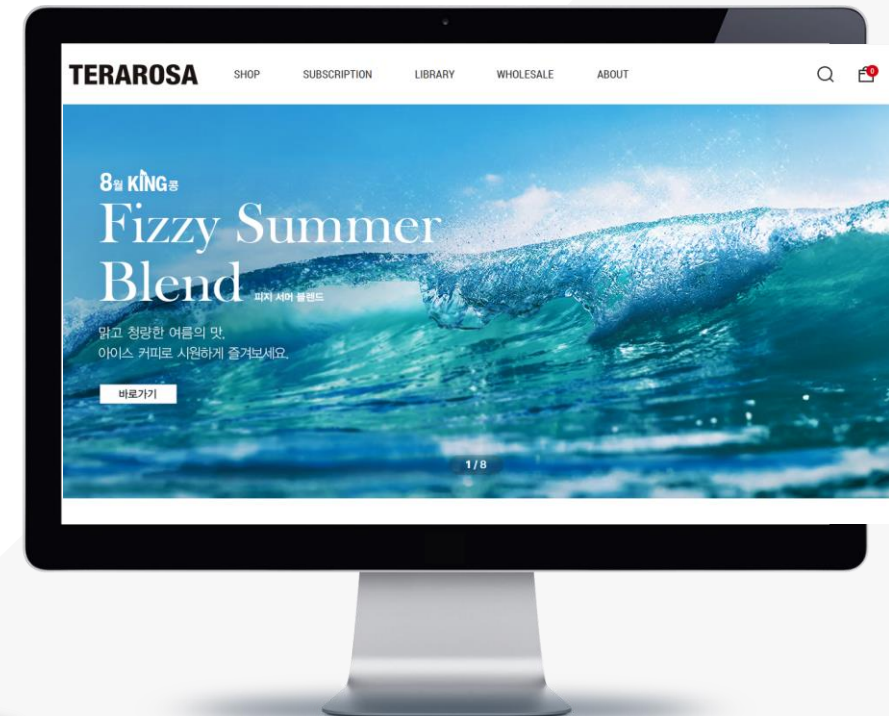
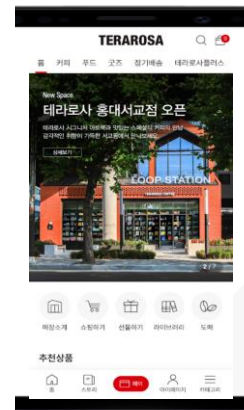
- Store Order/Online Market Feature Development
- Gift / Reservation feature development
- Integrated CMS implementation
- Order management, HR management function development
- Build distribution/logistics system
- Establishment of wired and wireless integrated services



Development
/Deployment



Operational
maintenance



Corporate Business

Established K2 Korea brand integrated mall

Building a comprehensive shopping mall service representing K2 Korea by integrating corporate brands



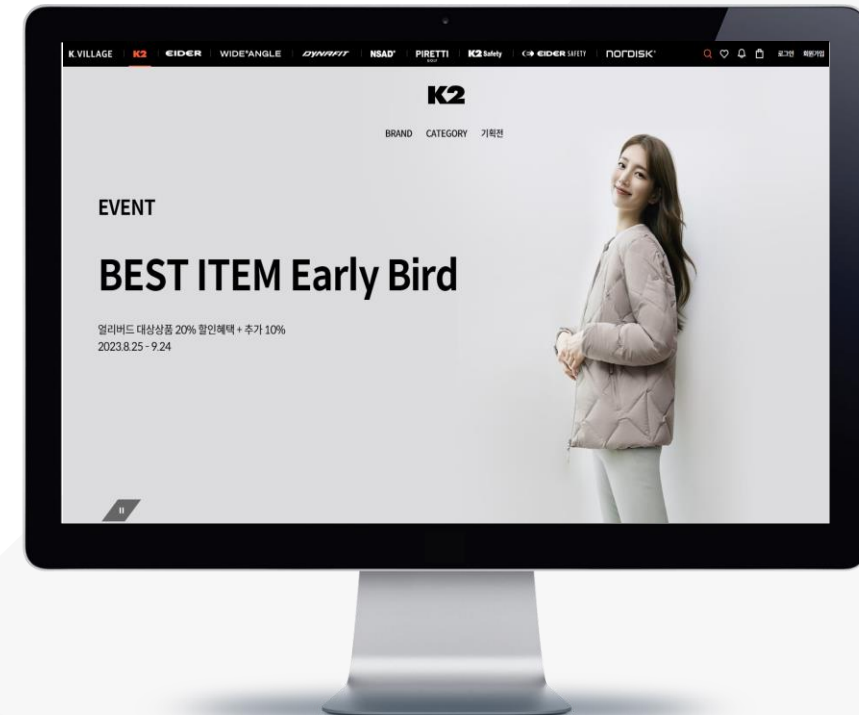
May 2021 - April 2022

Key enforcements

Implement PC/mobile services for online shopping malls that provide services such as membership, product search and purchase, and events.



Development
/Deployment



Mobile communication
business

KT.com Integration Operations

Planning and maintenance of KT.com and MyKT app services, site improvement planning, and development operations



May 2018 - Ongoing as of 2023

Ongoing projects since 2018



Key enforcements

Building Olleh.com Integration in 2011

Olleh.com integration maintenance from 2011 to 2016

KT.com integration maintenance from 2018 to 2023



Planning/
Marketing Strategy



Development
/Deployment



Operational
maintenance

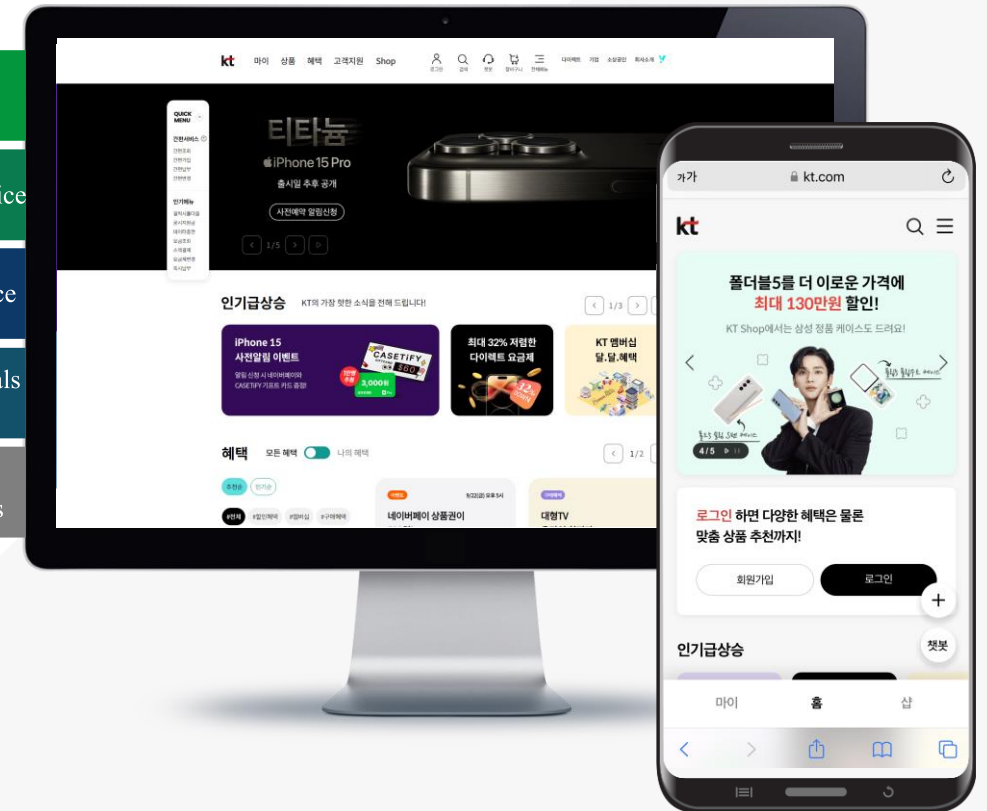
Main & Common /
Commodity Services

Online C/S (My Page) service

Unified Search Service

Hot deals, super deals
now marketing

About Us and
Enterprise/Small Business Sites



Establishment of KT online customer experience innovation

As the importance of customer experience expands in the trendy change process, KT Online channel reorganization



February 2021 - August 2021



Key enforcements

- KT.com Main/Common UI/UX Design and Functionality Improvements
- Improvement of information structure (IA) and establishment of integrated management system
- Enhanced personalization/benefit services
- Integration of Shop-related CS information in My Page
- Improved product service structure and enhanced personalization offerings
- Rebuilding CMS and Back-End
- Integration of KT's 4 apps (Membership/Family Box, Y Box, Statement) into MyKT App



Planning/
Marketing Strategy



Development
/Deployment



Operational
maintenance

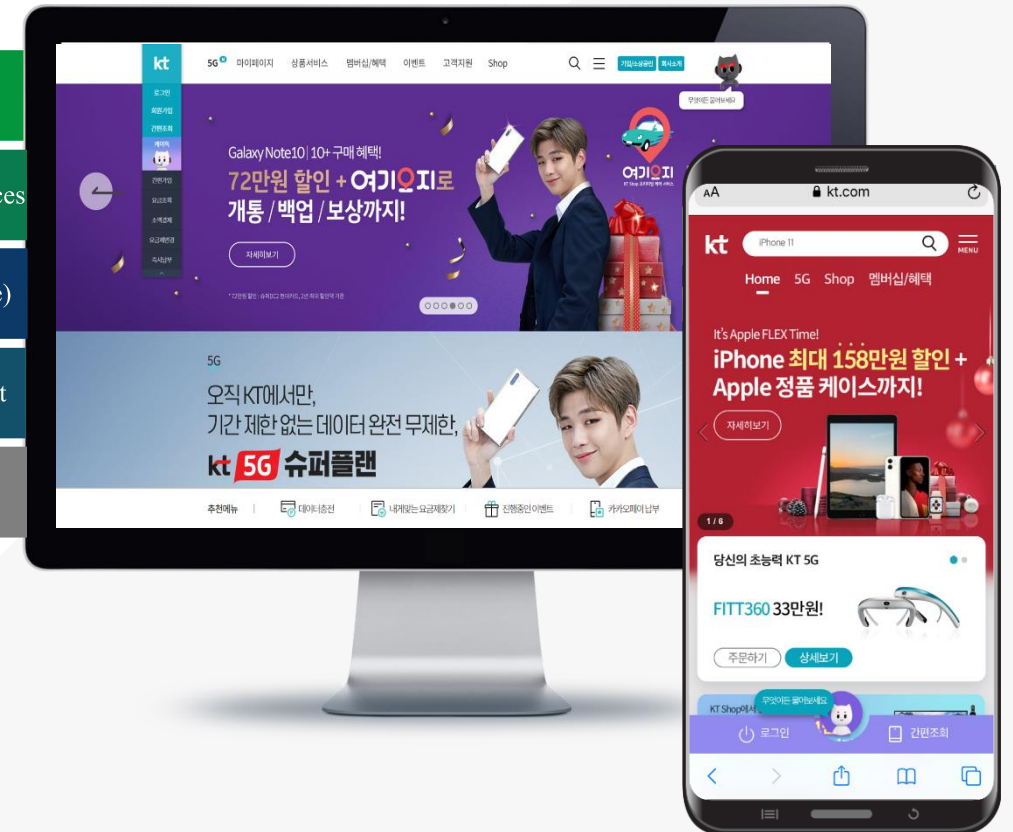
Main/Common/Unified
Search Service

Commodity Services

Online C/S (My Page)

Customer support

My KT App



Portfolio Major Business Performance (within 3 years) | KT Group

Mobile communication
business

KT Service Application

KT Major Service Application Deployment · Operation and Maintenance



Key enforcements

Building Application UI/UX and Functional Design

Development of operational system advancement

Management system and security system operation and maintenance

External integration development and maintenance

Widget function development and maintenance



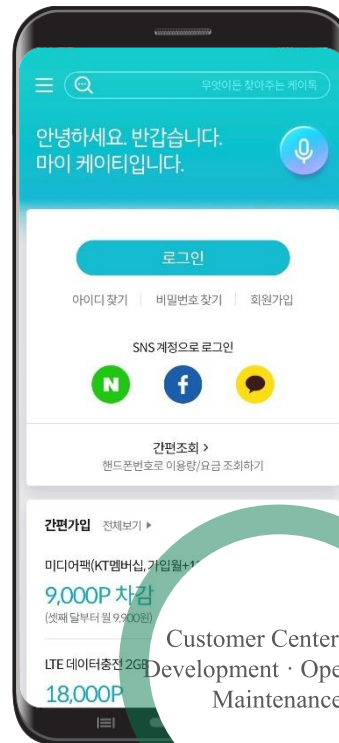
Planning/
Marketing Strategy



Development
/Deployment



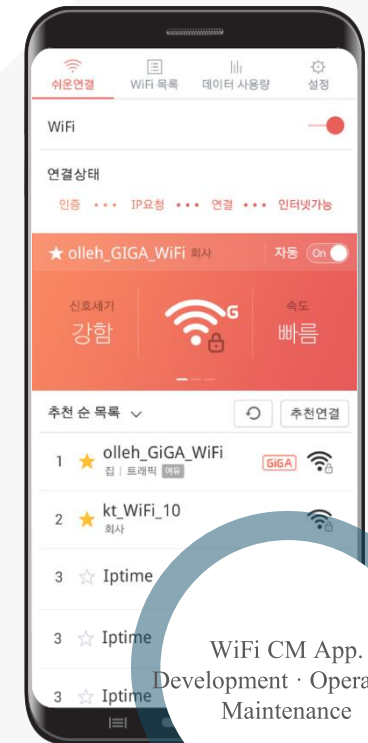
Operational
maintenance



Customer Center App
Development · Operations
Maintenance



Membership App
Development · Operations
Maintenance



WiFi CM App.
Development · Operations
Maintenance

Mobile communication
business

Build KT AICC B2B Solution Package

Build AI-Chatbot, AI-Voicebot, and AI-KMS platforms for KT AICC business expansion



July 2020 - January 2021



Key enforcements

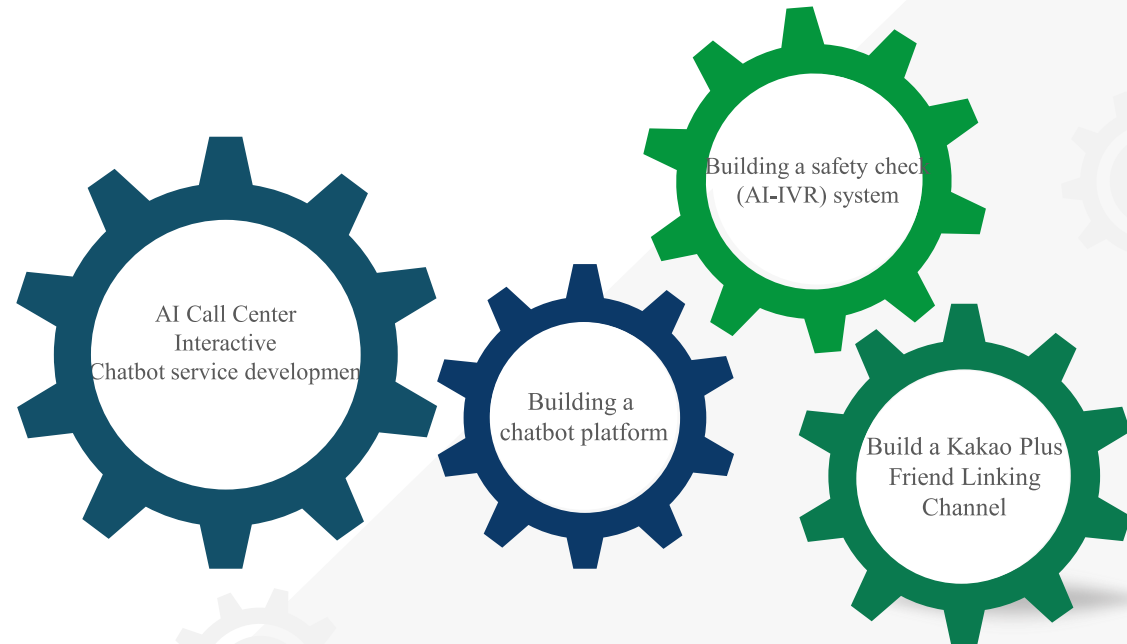
- Building KT AI-IVR Platform
- Court KakaoTalk chatbot implementation
- Chatbot consulting project for Seoul Metropolitan Transportation Authority
- Pyeongchang Olympics AI Call Center Demonstration Project
- Developed interactive chatbot service
- Established K-BOX chatbot platform
- Developed AIBOT multi-chatbot HUB system POC
- Development of AI CallBot



Development
/Deployment



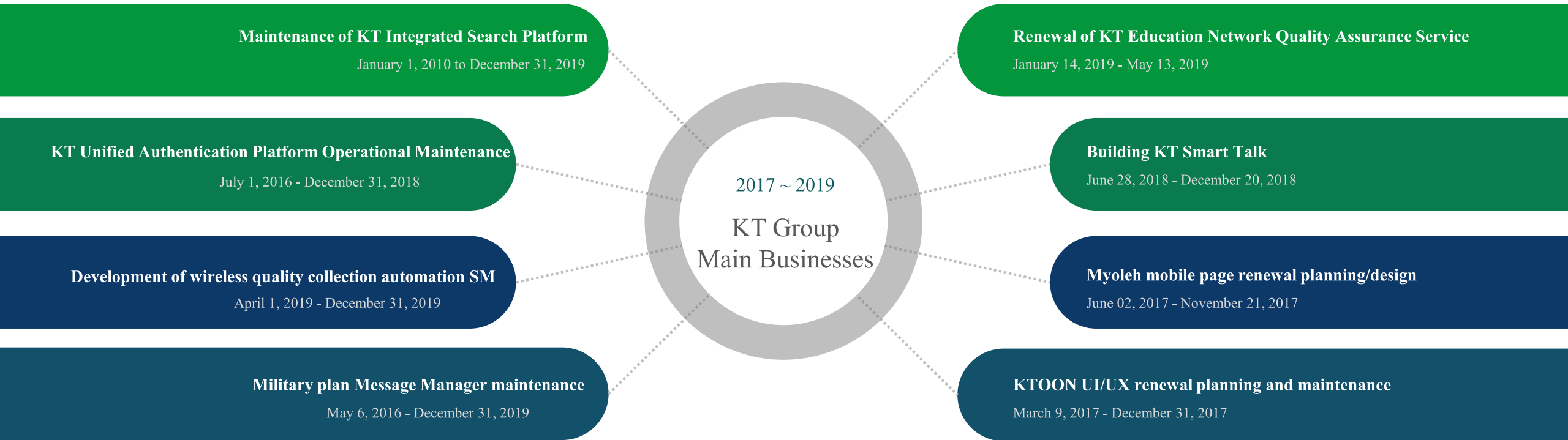
Operational
maintenance



Mobile communication
business

Other KT Group Businesses

Performed various planning, design, development, and maintenance projects to provide online services to KT customers for a long time.



Portfolio Major Business Performance (within 3 years) | LG Group

Mobile communication
business

Establishment of LGU+ mobile service between daily life and non-daily life

Build a mobile service with reservation and purchase functions in conjunction with U+ offline stores



May 2020 - Ongoing

Currently performing advancement and maintenance



Key enforcements

‘Gap between daily life and non-daily life’

Android, iOS mobile app development

Interface server development

Uplus Legacy and membership integration development

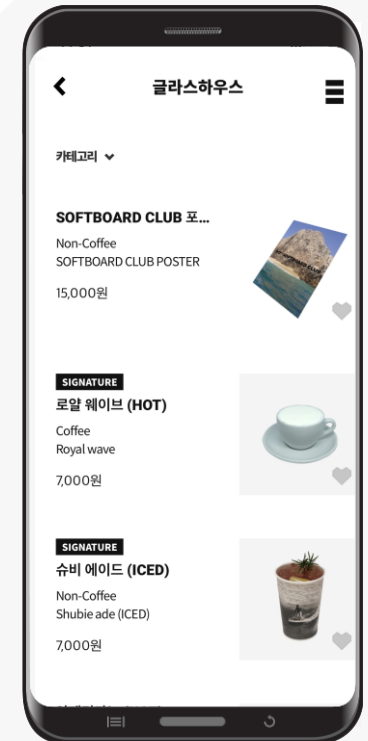
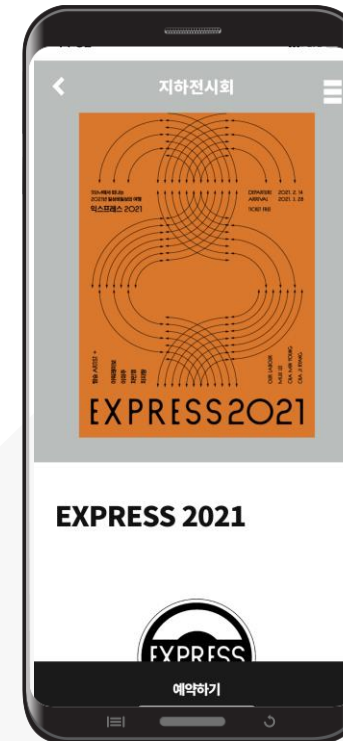
Developed store POS and payment service integration



Development
/Deployment



Operational
maintenance



Mobile communication
business

AI and Chat Platform

Established and maintained a counseling chat platform and Naver-linked AI service to provide customer C/S for U+ and U+ shop



October 1, 2018.

~ As of 2023 now



Key enforcements

Building a customer chat consultation platform for the U+ shop site

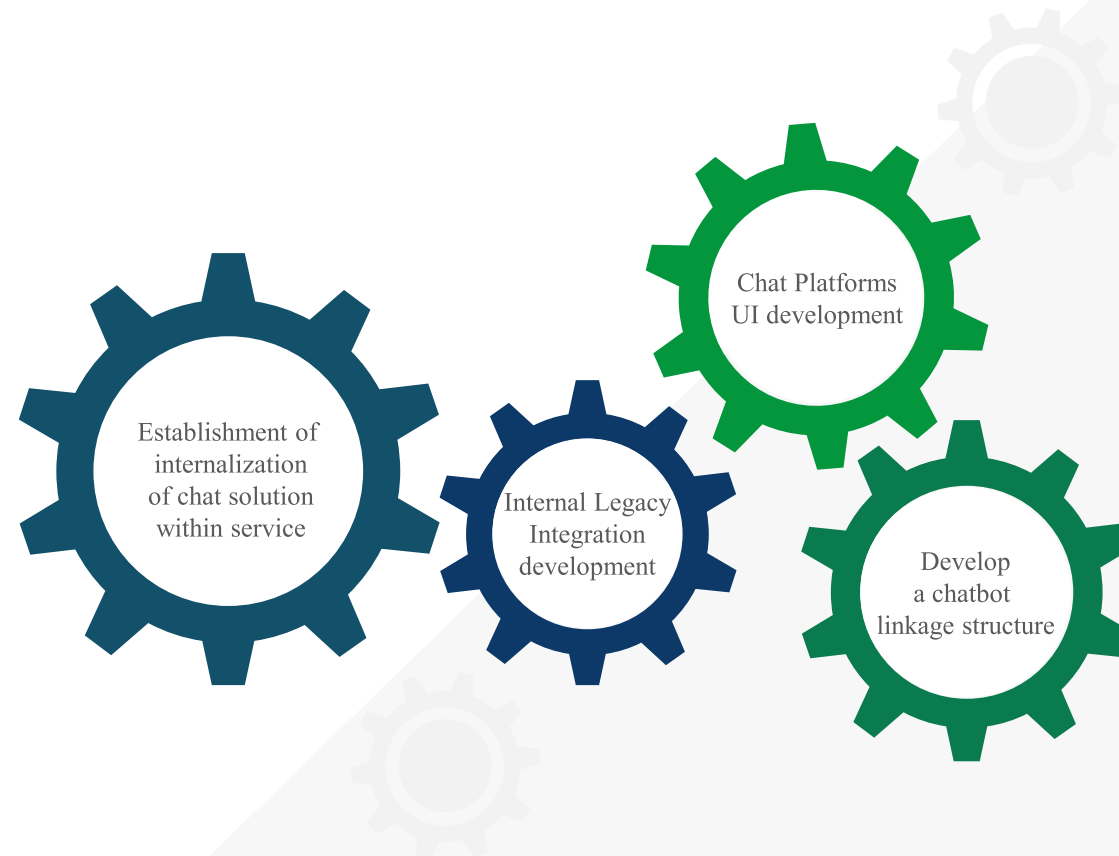
Building a chat consultation platform for the U+ shop site



Development
/Deployment



Operational
maintenance



Portfolio Major Business Performance (within 3 years) | LG Group

Mobile communication
business

MeCS* (* Media Content-management System)

Development and operation of mobile-based media content management system based on video such as U+ box and IPTV



~ 2023 Ongoing

Ongoing projects since 2012



Key enforcements

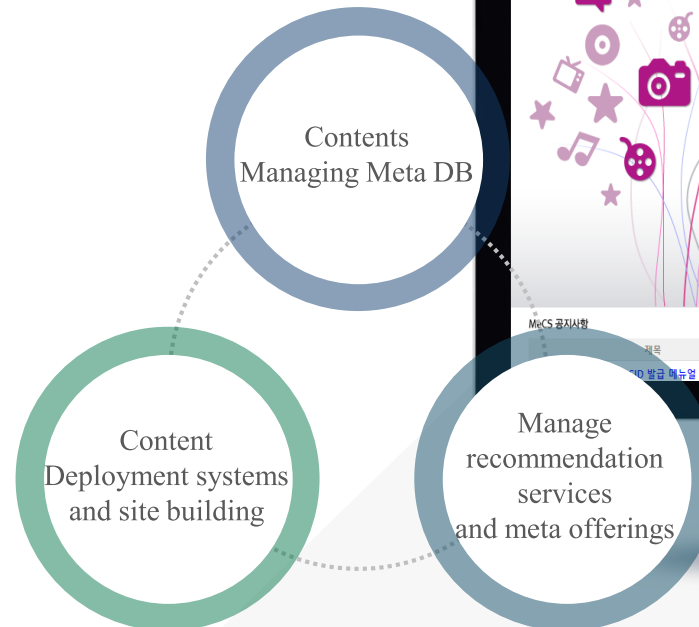
- Video Content Distribution
- IPTV and HDTV Video Content Meta Management
- Smart speaker music meta management
- Mobile music meta management
- Manage recommendation service recommendation meta



Development
/Deployment



Operational
maintenance



Mobile communication
business

Other LG Group Businesses

Developed and maintained various systems and platforms with LG U+ and LG CNS for many years



Portfolio Key Performance Indicators | Public Works

Public Works

Established the National Police Agency's non-face-to-face identity business integration system

System & Functional Advancements & System Integration Operations · Maintenance Projects



~ 2023

Ongoing projects since 2022



Key enforcements

Establishment of Background Check Business System in 2022

Building a digital record management system for background checks in 2023

Establishment of a paperless work environment through OCR and RPA

Establishment of a data linkage system with the National Police Agency through ESB

Establishment of OneClick business system through document centralization and electronic payment

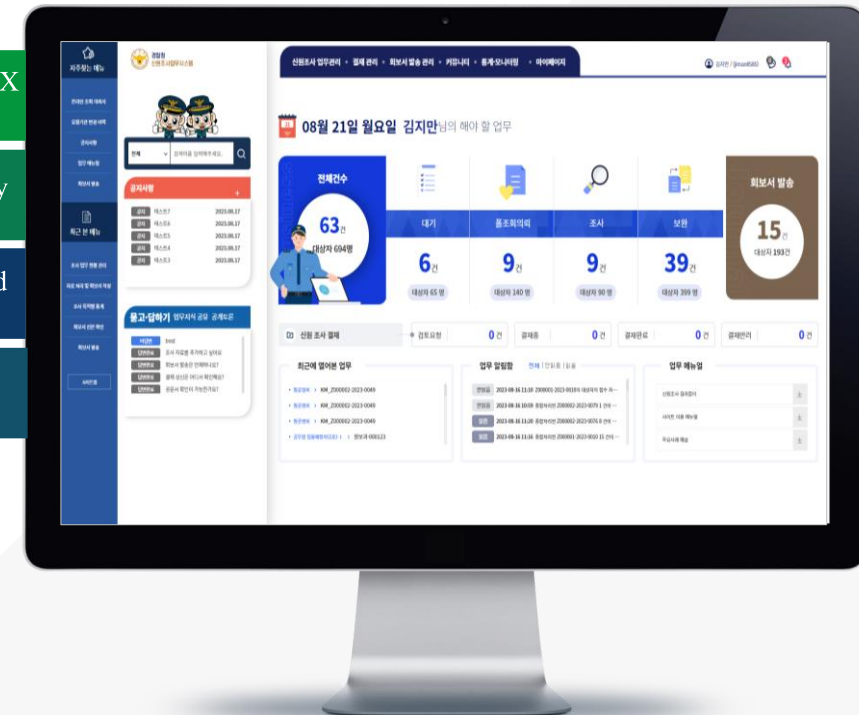
Implemented data authenticity verification through blockchain/high-density two-dimensional barcode

Manage work portal UI/UX deployments

Applying DB security and blockchain

Manage search and data information

Developing external system integrations



Development
/Deployment



Operational
maintenance

Public Works

Ministry of Trade, Industry and Energy Administrative Information System

System & Functional Advancements & System Integration Operations · Maintenance Projects



~ 2023

Ongoing projects since 2015



산업통상자원부

Key enforcements

Continuous operation management after rebuilding work portal UI/UX and messenger in 2015

2018 Implementation of administrative information system modernization

2019 Administrative information system upgrade project

Operation and maintenance of administrative information systems, information protection system operation and network equipment management

Improvement of web standard, web accessibility,

and web compatibility quality maintenance information system functions



Development
/Deployment



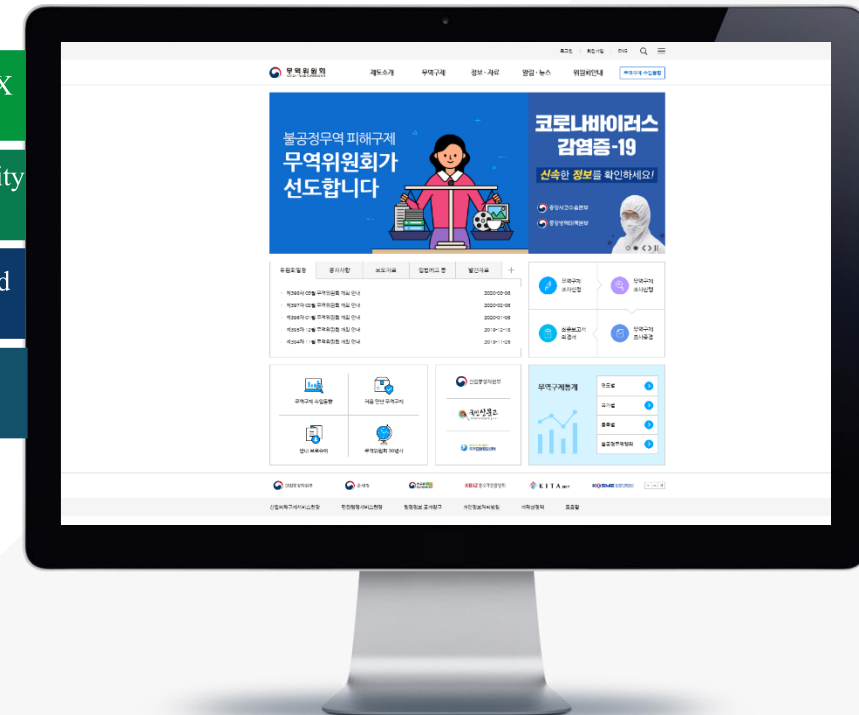
Operational
maintenance

Manage work portal UI/UX
deployments

Authentication · Security
System Management

Manage search and
data information

Developing external
system integrations



Public Works

Renewal of the VisitKorea website by the Korea Tourism Organization

PC /Mobile/Web English, Japanese Renewal



July 2020 - January 31, 2021

Key enforcements

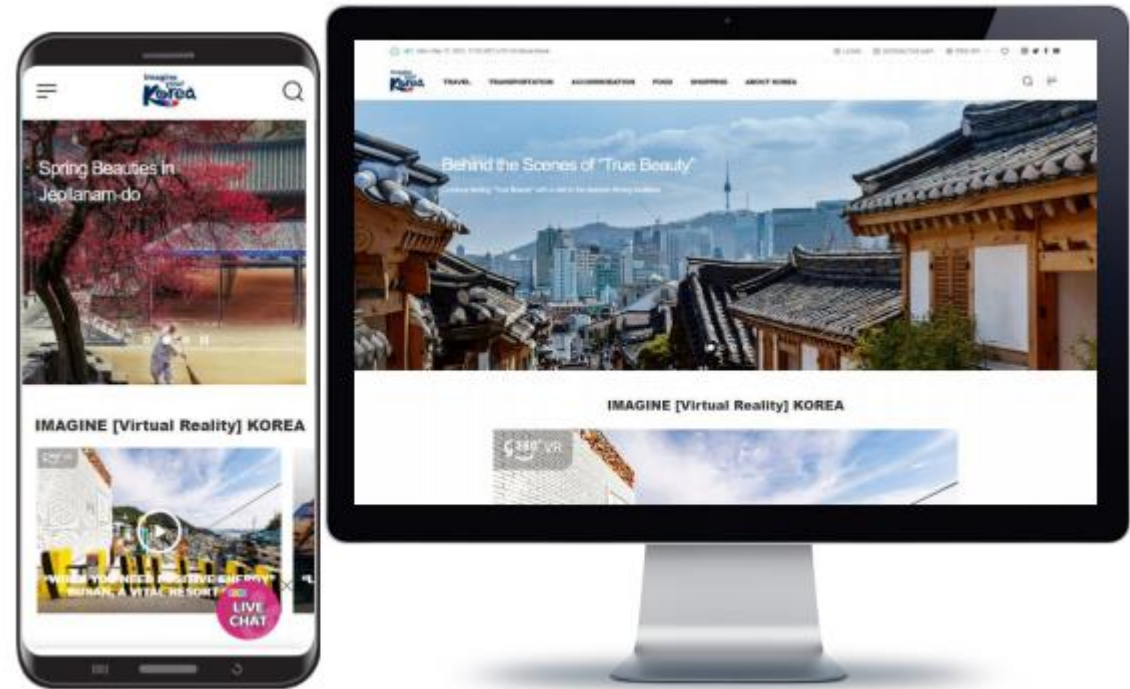
- Mobile First UI/UX Planning/Design that Reflects Tourism Marketing Trends
- Renewal of all pages to improve usability
- Personalized recommendation service linked to SNS
- Differentiated VR content planning and user communication channel planning



Development
/Deployment



Operational
maintenance



Public Works

Established the website of the Ministry of Trade, Industry and Energy 2030 Busan World Expo Bid Team

PC /Mobile/Web



July 2020 - September 30, 2020

Key enforcements

Establishment of the official website of the 2030 Busan World Expo Bid Team with the goal of raising public awareness of the 2030 Busan World Expo, promoting bidding activities, and creating a national consensus (Korean/English)
UI/UX planning design that reflects the latest web trend
that break away from publicity Responsive web implementation



Development
/Deployment



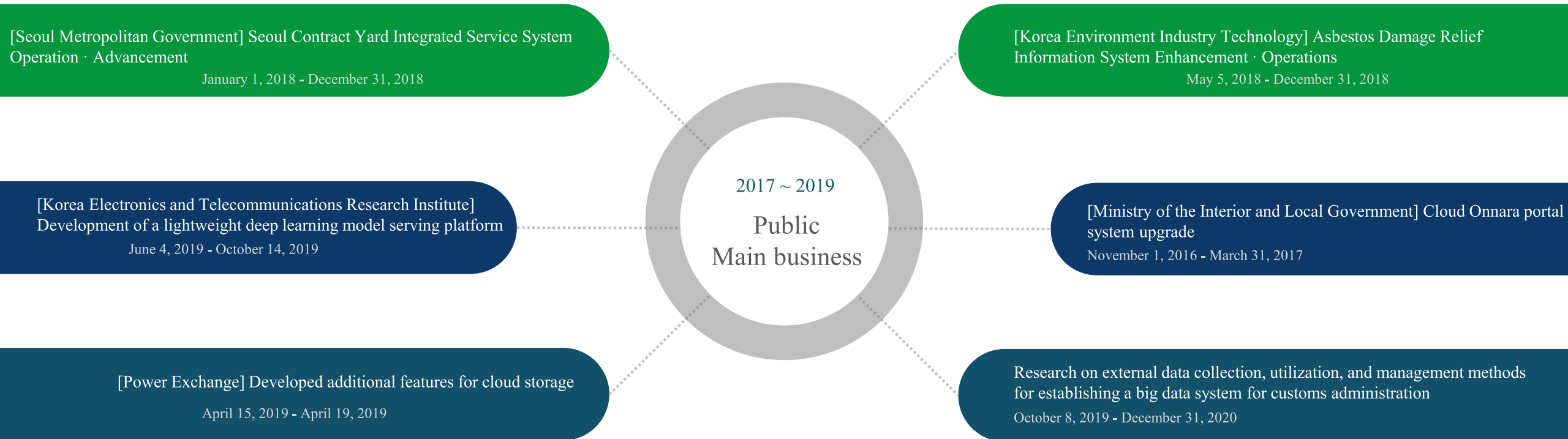
Operational
maintenance



Public Works

Other public and government (R&D) business

Public · As a representative partner of the ICT industry for government departments, we develop and maintain various systems and platforms.



Government (R&D)

Civilian Intelligence Information Service Expansion Project

Development of intelligent power/communication cable remote management service using deep learning technology



April 1, 2020

~ through December 31, 2021

Research and development in progress



과학기술정보통신부



정보통신산업진흥원
National IT Industry Promotion Agency

Key enforcements

Development of Intelligent Remote Asset Management Platform

Development of event classification model based on DAS acoustic/vibration signals

Development of intelligent remote asset management system

Convergence of AI + Big Data-based services



Platform
Development

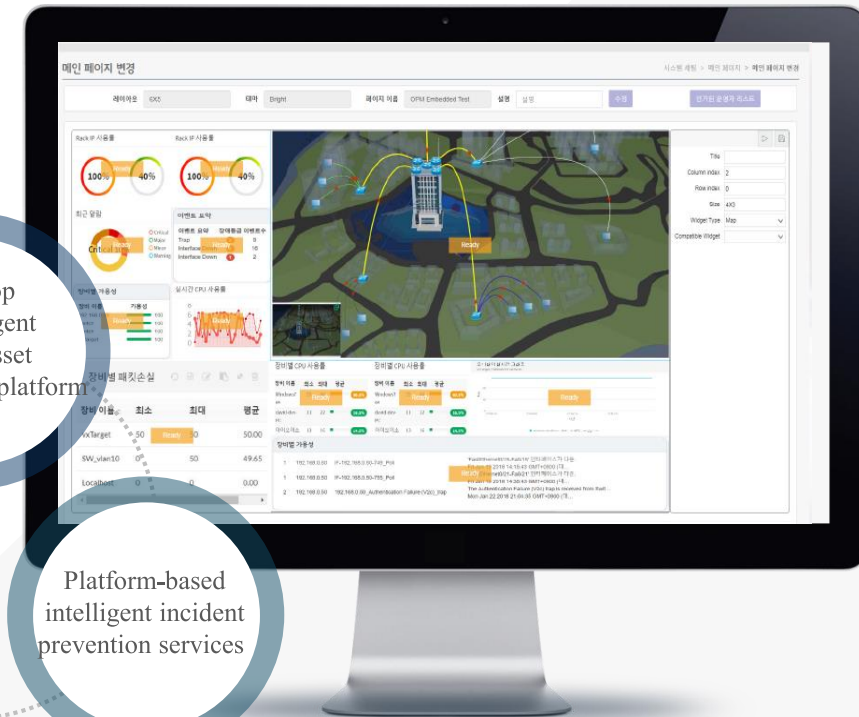


Artificial
Intelligence

Develop
an intelligent
remote asset
management platform

MSA-based scalability
and availability support

Platform-based
intelligent incident
prevention services



Government (R&D)

ATC Business

Cross-platform development of intelligent big data that supports customized search and recommendation based on document centralization of research organizations and integrated utilization of global open data.

April 1, 2020
~



산업통상자원부 한국산업기술평가관리원

Key enforcements

Cross-Platform Development and Advancement of Document Centralization

Development and product launch of AI search analytics platform

Developed and advanced an unstructured data search processing platform



Platform
Development

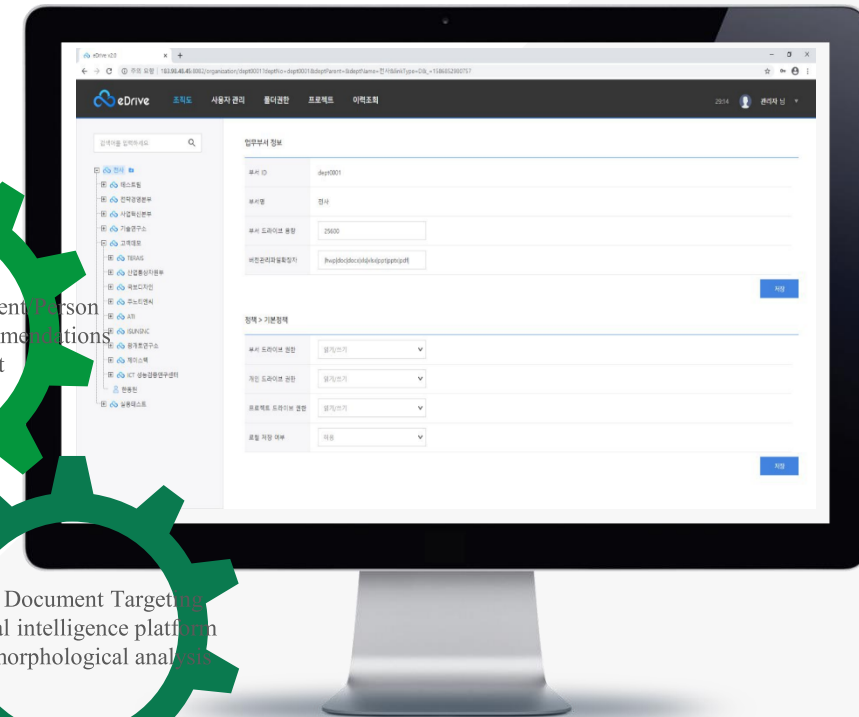


Document
centralization

By Organization/Department/Person
Search - Analytics - Recommendations
Keyword support

Different model OS Support
File systems
High-speed transfers

Single Document Targeting
Artificial intelligence platform
based morphological analysis



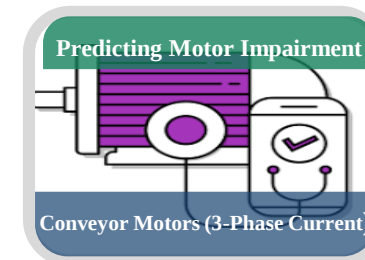
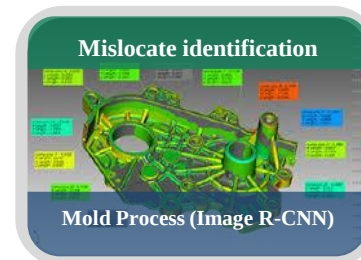
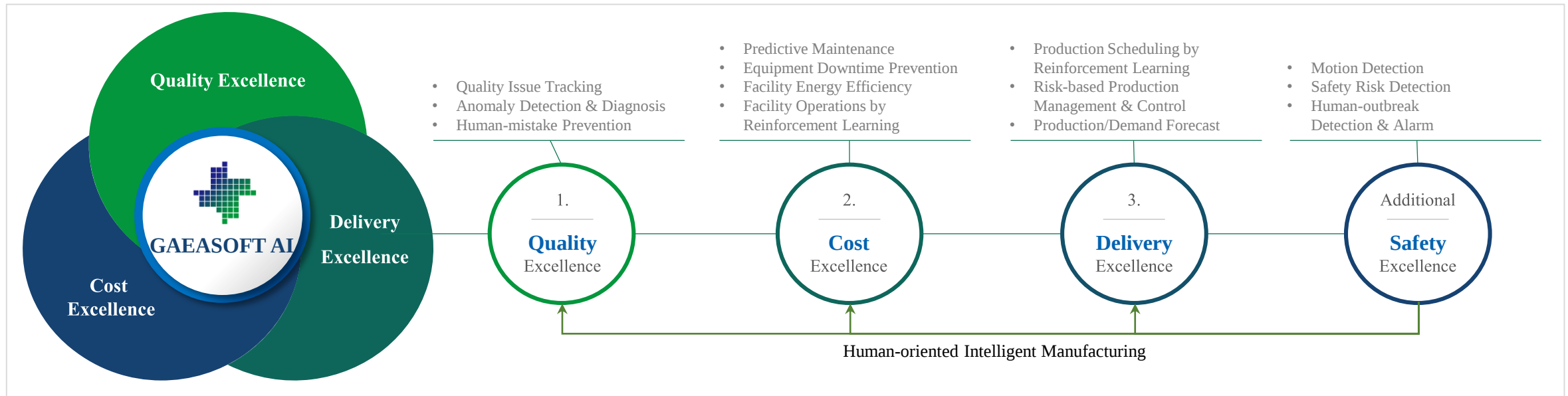
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Appendix



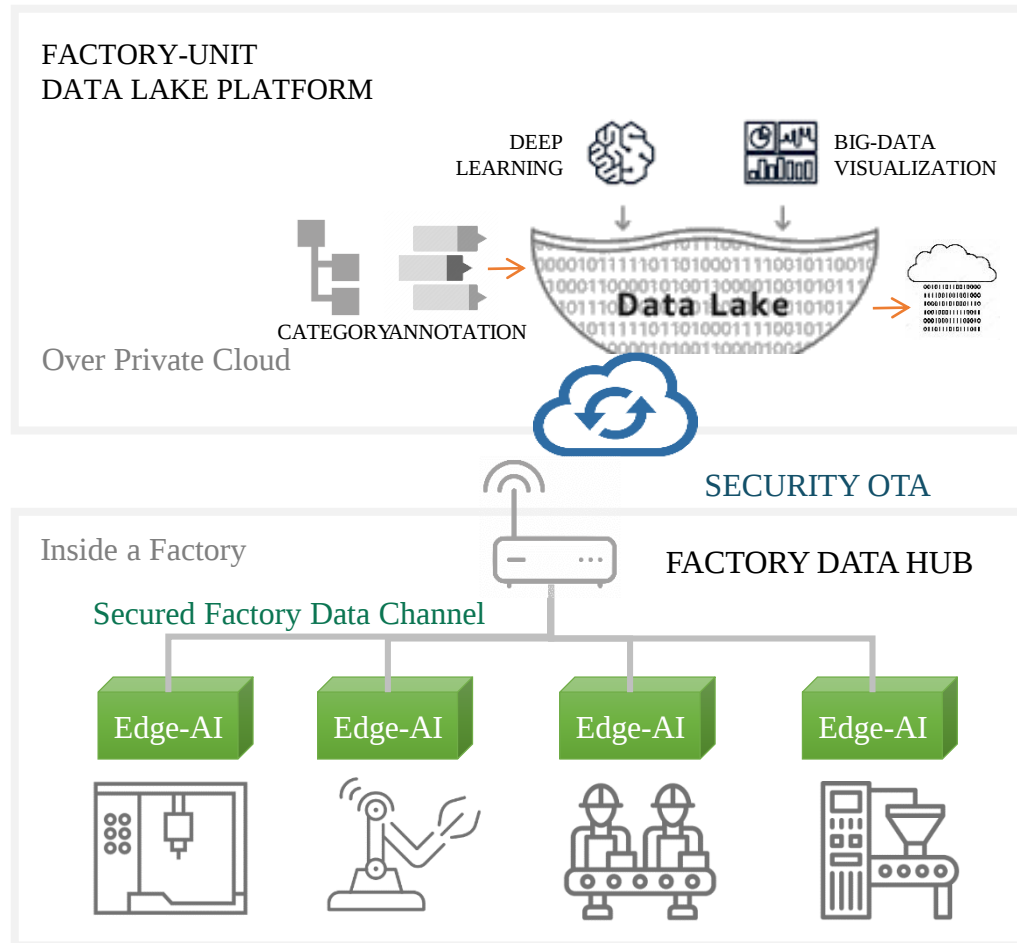
Factory Intelligence service technology - Factory AI Applications & Services

that will transform the existing manufacturing environment into a smart factory production system in the era of the Fourth Industrial Revolution



Factory Intelligence ICT technology - Intelligent Edge Platform & Factory Data Lake Platform

that will transform the existing manufacturing environment into a smart factory production system in the era of the Fourth Industrial Revolution



Our Products

Key Features & Advantage

Factory Data Lake Platform

- FACTORY Real-time collection of structured, unstructured, and semi-structured data
- Data storage by hot and cold storage classification
- DATA LABEL Annotation Tool for AI learning
- Support for big data visualization and analysis tools (Big-data Visualization & Analysis)
- Real-time data streaming supply and data security channel support
- Open API to Discover / Publish / Share FACTORY DATA

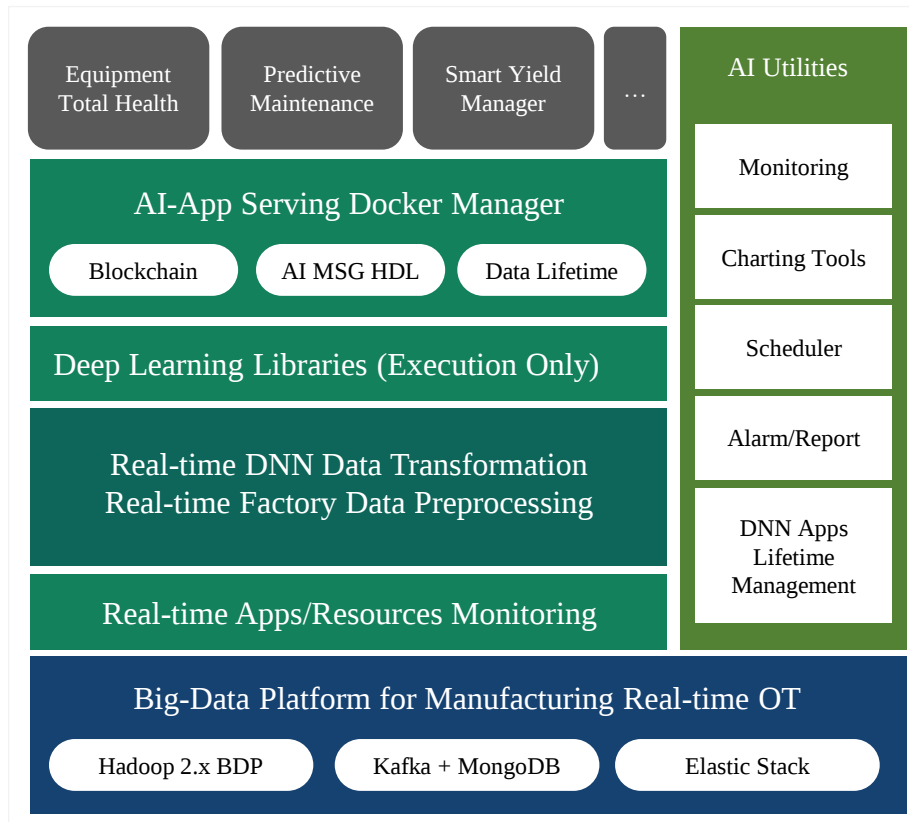
Intelligent Edge Platform

- AI support for determining normal/abnormal from factory data
- Supports uninterrupted AI service operation even if data communication failure occurs
- Available to supports data filtering and asynchronous transmission that delivers only abnormal data to the upper level
- Supports AI service upgrade through wired and wireless data communication networks
- Provides the ability to analyze and periodically report the health status of facilities and processes

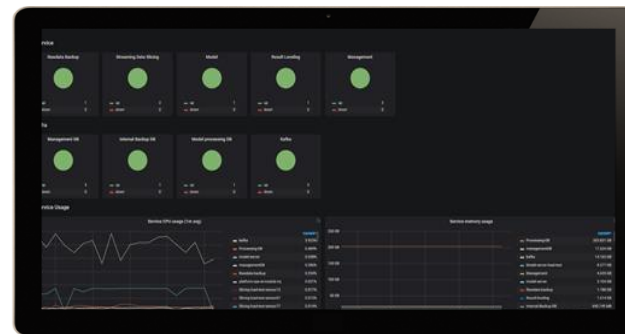
Factory Intelligence ICT technology - Smart Factory AI Service Platform

that will transform the existing manufacturing environment into a smart factory production system in the era of the Fourth Industrial Revolution

FACTORY-AI SaaS Platform



Artificial Intelligence Operation Platform Features and Benefits



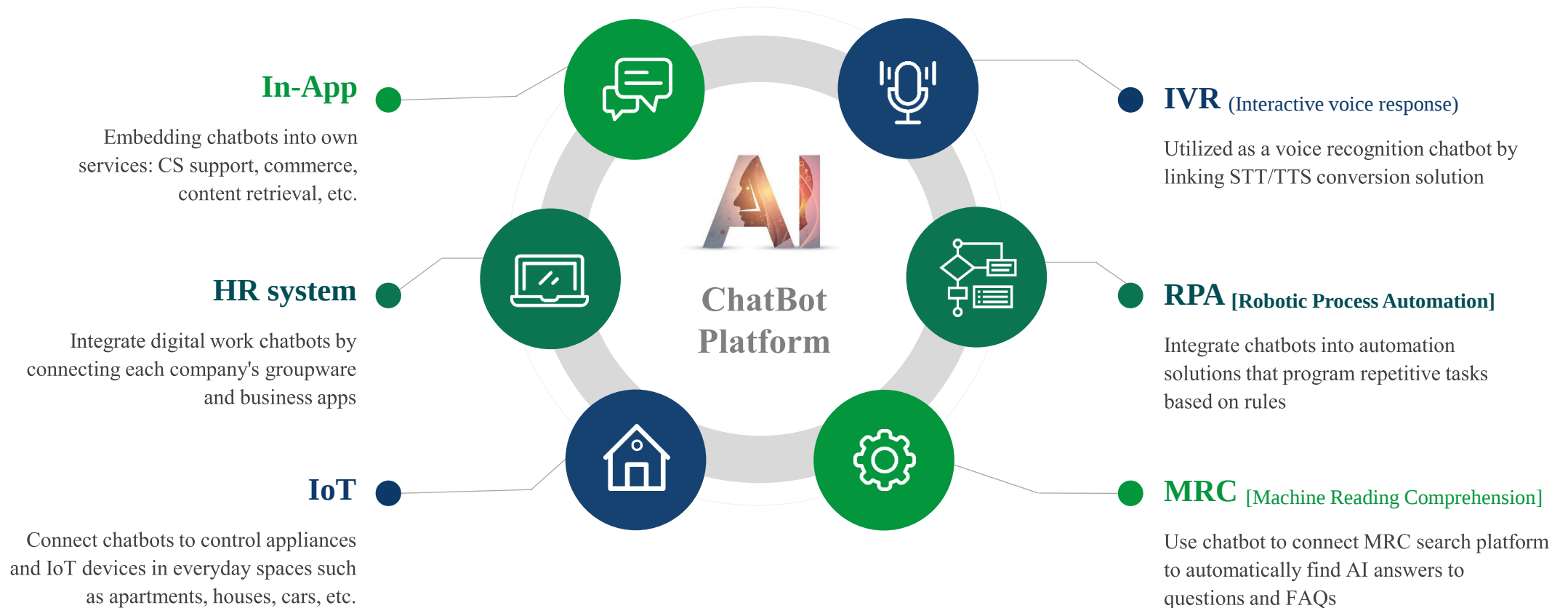
Monitoring AI compute resources



Monitoring AI application lifetime (= learning state)

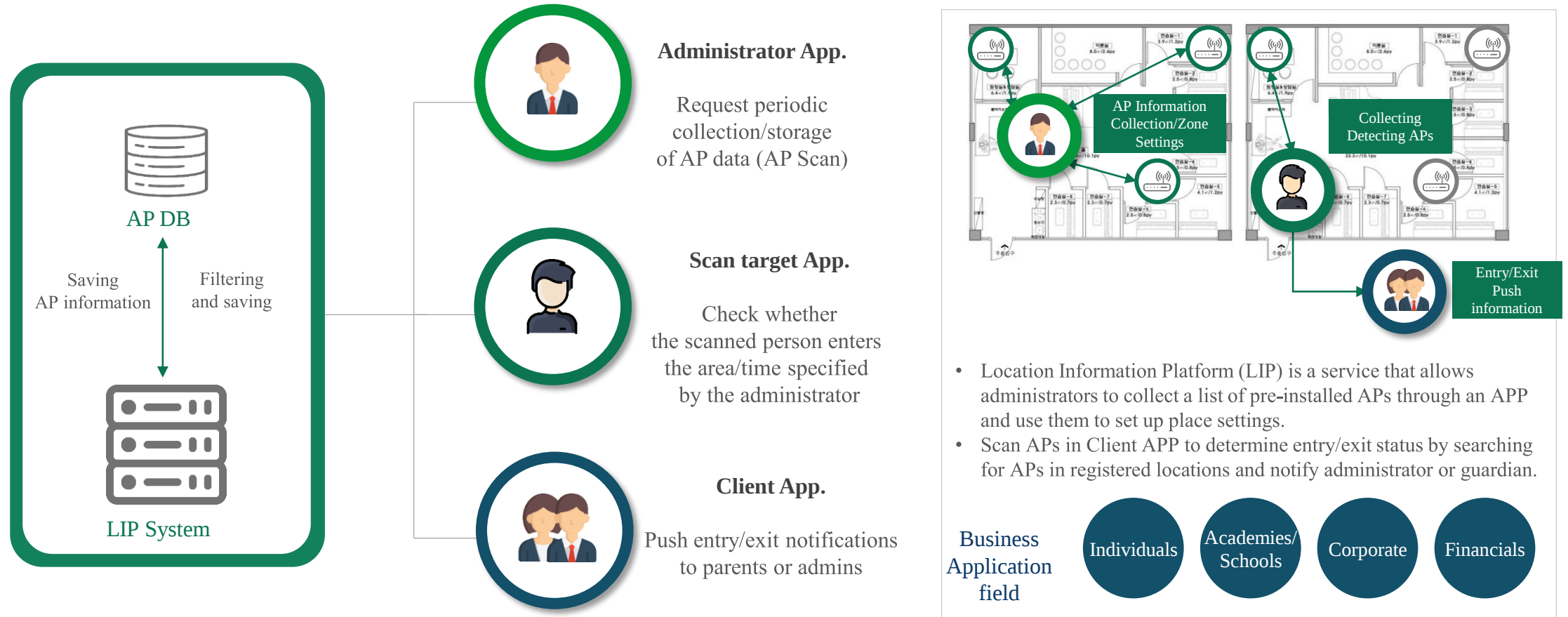
AI-based Chat Bot Solution

that can build a knowledge database based on natural language processing technology and build an artificial intelligence system through conversation modeling



AP-based Geolocation Platform– LIP(Location Information Platform)

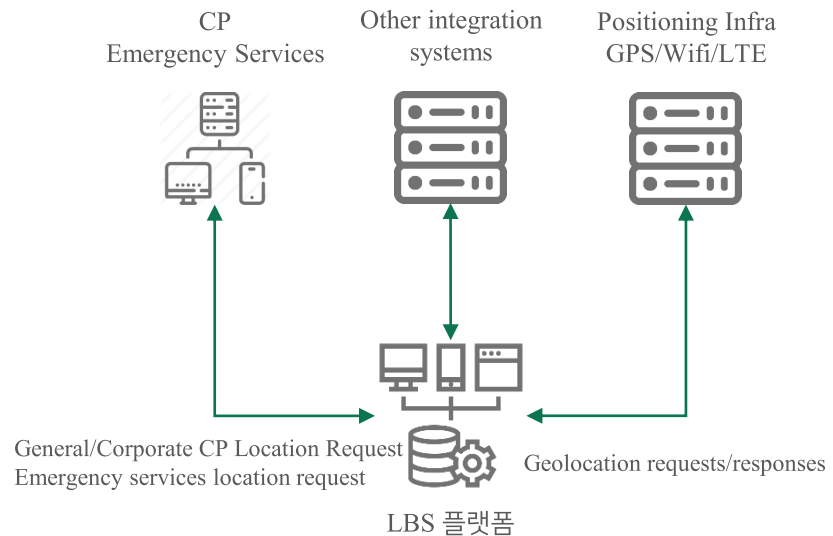
utilizing long-standing technology in the LBS field



Geolocation technology – LBS

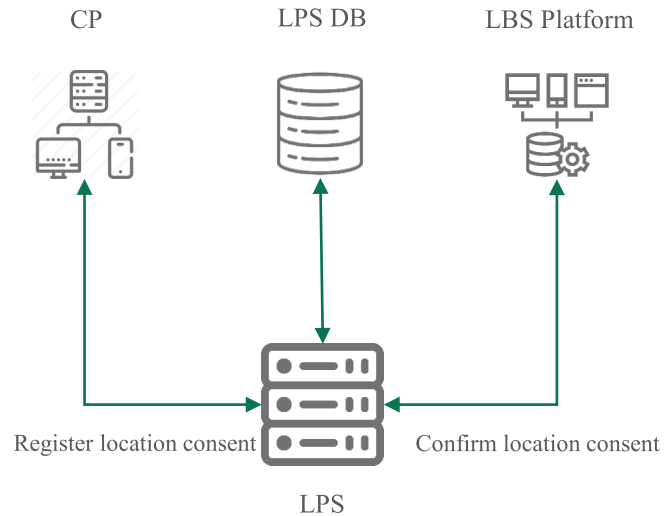
with long-standing development technology and the best experts in the LBS field from 1988 to the present

LBS Platform



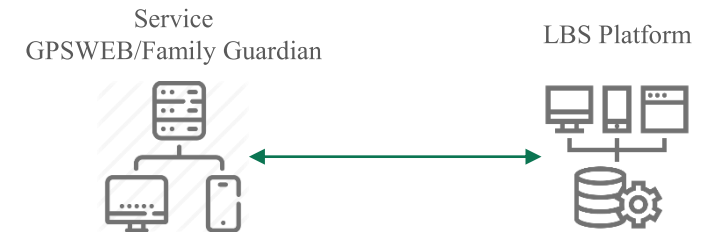
- Receive GPS, WIFI, LTE CELL-based positioning information
- GISP/Map Infra reverse geocoding, map request
- SMS G/W, Wap Push SMS to G/W, Invoke SMS sending request
- Billing system integration

Location information self-control system



- Building a Geolocation Self-Control Check System
- Deciding whether to allow subjects to provide location information
- Users take control of their location information

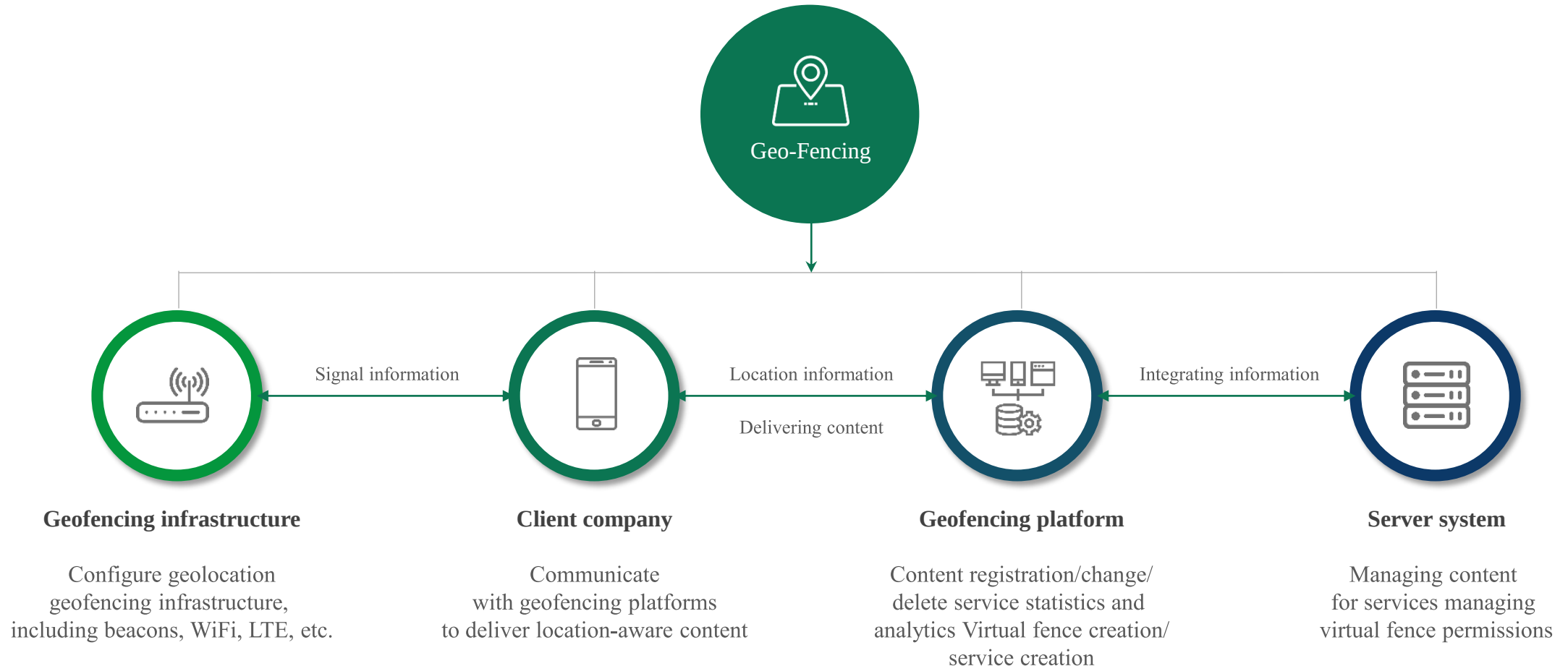
LBS-based service



- I'll Protect You APP integration, mobile functions such as Eye Keeper, Safe Zone, and Positioning Test, and emergency agency positioning API support
- Safe zone setting, location information history, automatic location notification setting function Current location inquiry, device integration, native APP integration API support

Geo-fencing technology that can identify the location of a specific target based on a location information solution

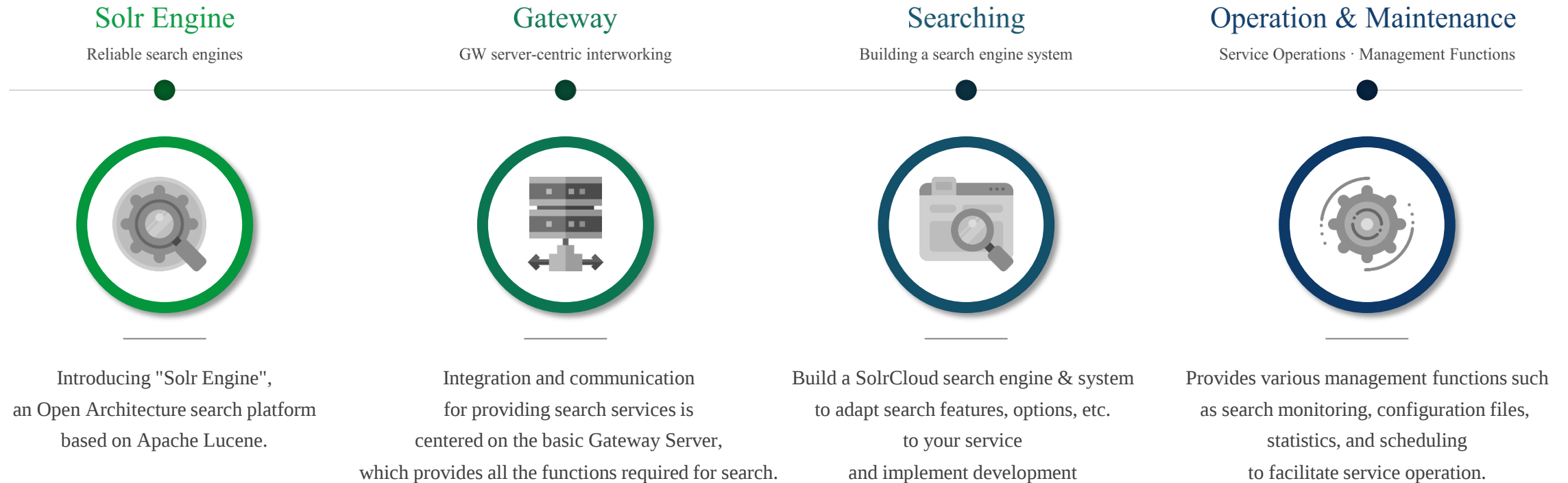
that provides various mobile marketing services using location information



Appendix Core Competency Detail - Owned Infrastructure #8

Build a stable search engine platform and system to introduce integrated search in services · Developable

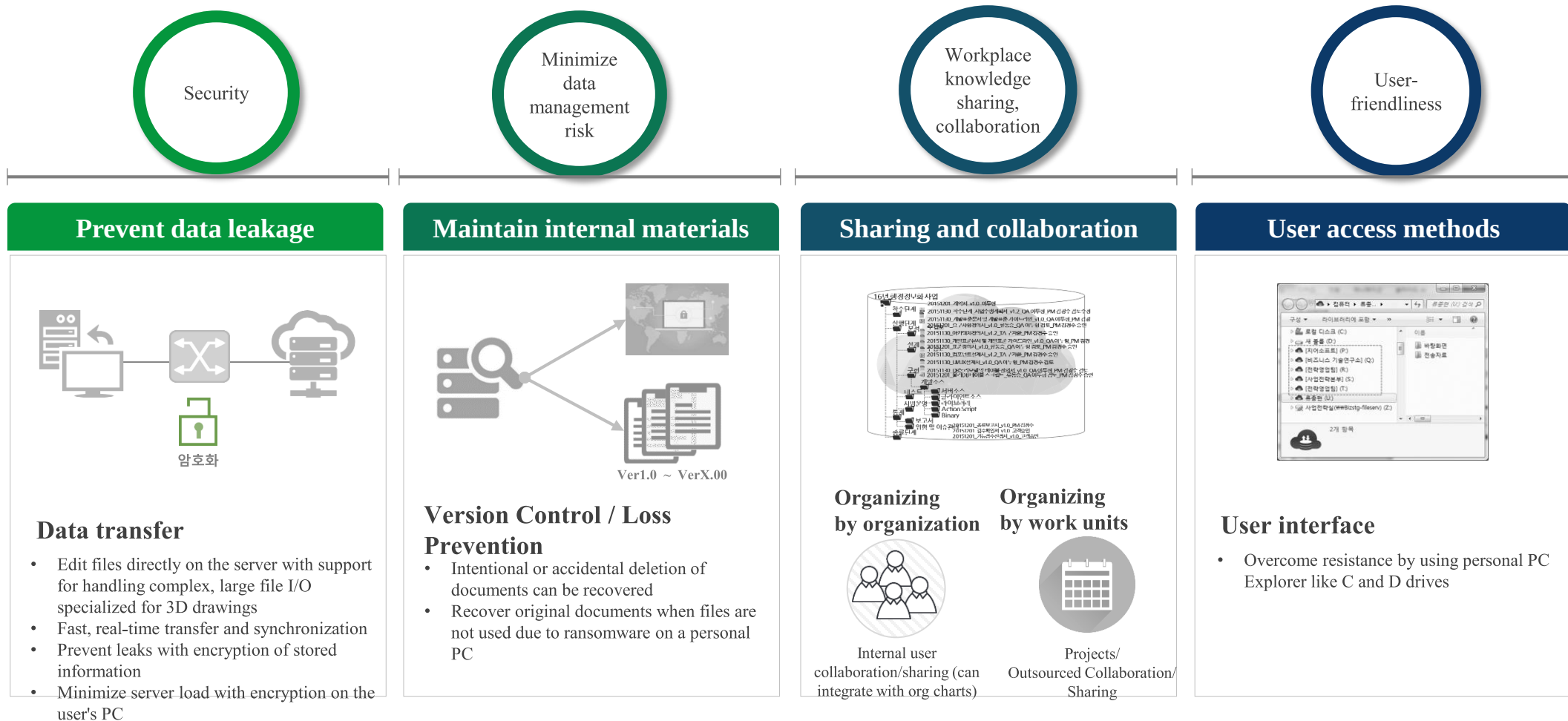
Searching Solution



Appendix Core Competency Detail - Owned Infrastructure #9

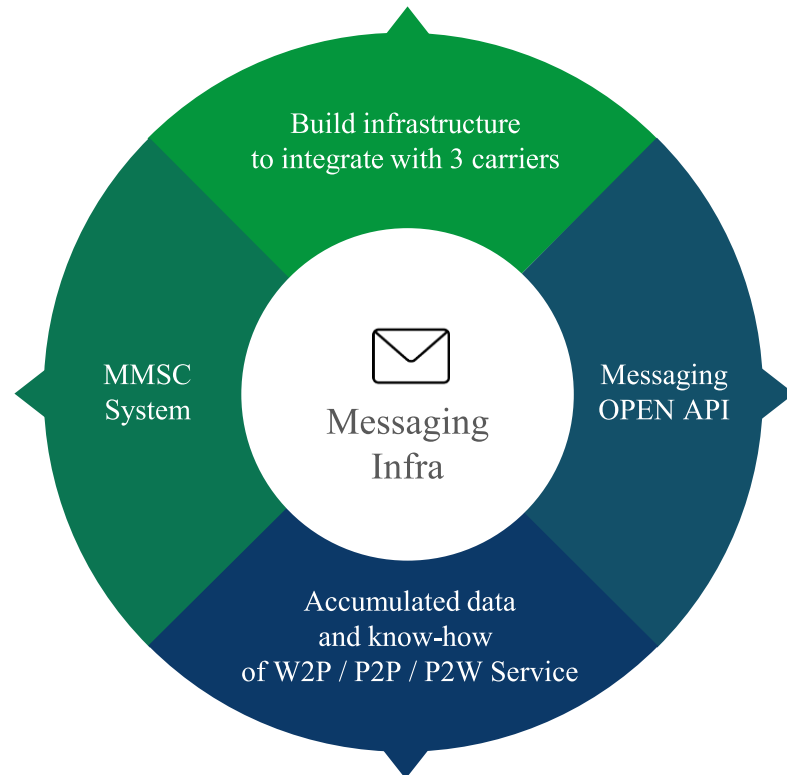
Cloud storage solutions to ensure document loss prevention/work collaboration/data management/leakage prevention/business continuity

File centralized storage solution - eDrive



Wired and wireless integrated messaging service

that developed the first messaging service with a domestic carrier and built various transmission and storage management systems

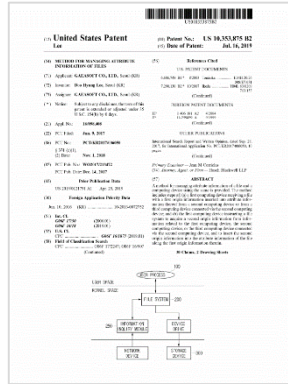


[Relevant performance]

- 2011 Implementation/operation of kt.com texting (Show & Qook integration open)
- 2011 Openly built and operated m.kt.com texting service
- 2012 PC Text Messenger v3.7 open implementation/operation
- 2012 Established/operated National Tax Service labor benefit texting service
- 2014 Established/operated free texting for KT benefits/memberships
- 2015 Established/operated KT military plan texting service
- 2016 Established SMS and LMS service for B2B of Woori Credit Union
- 2018 Established enterprise messaging platform and launched i-Talk Biz service
- 2019 Provided i-Talk Biz election texting service
- Established/operated Oasis Market GMS messaging service from 2018 to present

Appendix Additional Supporting Documentation - Patents and Awards Details

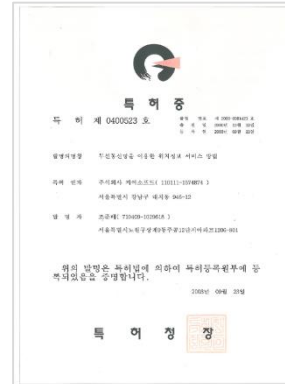
Patent (#1)



METHOD FOR MANAGING
ATTRIBUTE INFORMATION OF FILE
(US)



ファイル管理方法及びこれ
を利用したファイル管理装置
(JP)



Location information
service method
using wireless communication network



Methods and systems
for providing termination message
delivery services



File management methods
and the devices that use them



Server-to-client
content delivery methods

Application Number	Application Date	Classification	Description
2007-0002202	2007.01.08	Registered patent	Methods and devices for sharing content between computers and mobile devices
2011-0038930	2011.04.26	Patent application	Project management method and system to support research grant validity verification
2012-0031506	2012.03.28	Patent application	Method of providing goods or services based on a network that flows from a supplier to a consumer (0001)
2012-0031516	2012.03.28	Patent application	Method of providing advertisements using location-based information (0002)
2012-0031526	2012.03.28	Patent application	Method of providing advertising services (0004)
2012-0033571	2012.03.30	Patent application	Method and system for providing advertising services (0005)
2012-0035396	2012.04.05	Patent application	A terminal equipped with an independently operated advertising area, and a method and system for providing advertising services using the same
2012-0038863	2012.04.16	Patent application	System and method of providing advertisements under a terminal lease contract
2012-0058164	2012.05.31	Registered patent	Server-to-client content delivery methods
2012-0058163	2012.05.31	Patent application	Synchronization devices and methods for content delivery on CDNs
2012-0060931	2012.06.07	Patent application	Ad serving policy management unit for ad systems

Appendix Additional Supporting Documentation - Patents and Awards Details

Patent (#2)

Application Number	Application Date	Classification	Description
2012-0060942	2012.06.07	Patent application	Application Market System Delivery Device
2012-0003496	2012.07.11	Trademark service mark registration	appstage
2012-0034180	2012.07.13	Design registration	Computer monitor displaying the image design
2012-0034182	2012.07.13	Design registration	A phone with a image design
2012-0034185	2012.07.13	Design registration	TV monitor displaying the image design
2012-0034193	2012.07.13	Design registration	Label
2013-0015864	2013.02.14	Patent application	Servers and systems for the provision of chauffeured driving reservation services
2013-0015871	2013.02.14	Patent application	A database construction device for chauffeur service and a service for connecting chauffeurs using it
2013-0015876	2013.02.14	Patent application	Designated driver connection method, server that executes it, and system that executes it
2013-0043111	2013.04.18	Patent application	App Store services for business systems and methods
2013-0043192	2013.04.18	Patent application	System and method for application services on a set-top box
2013-0043195	2013.04.18	Patent application	System and method for batch installation of group products using set-top boxes
2013-0043198	2013.04.18	Patent application	Systems and methods for updating applications using set-top boxes
2014-0629237	2014.08.28	Patent application	Devices and methods for providing calibrated location information using geolocation information
10-2014-0116303	2014.09.02	Patent application	Document management devices and methods for setting file names to rules
10-1790594	2016.06.10	Patent application	How to manage property information for files and computer devices
10-1806499	2016.06.10	Patent application	File management methods and the devices that use them
10-1927746	2016.05.04	Patent registration	Methods and systems for providing termination message delivery services
2018-558353	2018.10.22	Japan registration	ファイルの属性情報を管理する方法及びコンピューティング装置
16/098,408	2018.11.01	US registration	METHOD FOR MANAGING ATTRIBUTE INFORMATION OF FILE AND COMPUTING DEVICE USING THE SAME
16/180,481	2018.11.05	US registration	METHOD FOR MANAGING FILES AND APPARATUS USING THE SAME
JP 2018-558266	2018.10.15	Japan registration	ファイル管理方法及びこれを利用したファイル管理装置

Appendix Additional Supporting Documentation - Patents and Awards Details

Patent (#3)

Application Number	Application Date	Classification	Description
10-2020-0088374	2020-07-16	Patent application	Geolocation-based security service delivery systems
10-2020-0088379	2020-07-16	Patent application	Location-based assured service delivery system
10-2022-0071848	2022-06-14	Patent application	Method and apparatus for allocating picking and display operations to a picking cart
10-2022-0071849	2022-06-14	Patent application	Pickup guide for bulk fulfillment methods and devices for delivering information
10-2022-0071850	2022-06-14	Patent application	Method and apparatus for providing product packaging information using visualization information
10-2022-0049139	2022-04-20	Patent application	Unmanned store product counting method and device (AI-based unmanned automated store technology)
10-2022-0071851	2022-06-14	Patent application	Methods and devices for creating and delivering shipping routes using order information
10-2023-0005949	2023-01-16	Patent application	Methods and devices for signing in to applications with user authentication using digital images

Appendix Additional Supporting Documentation - Patents and Awards Details

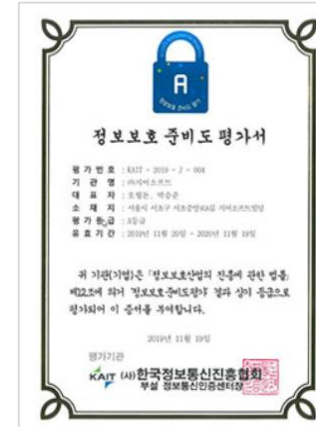
Certification



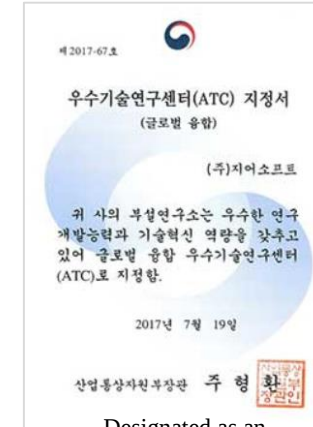
Certification of
Corporate Research Centers



Software Quality Certification 2019
[eDrive - Grade 1]



2019 Information Security
Readiness Assessment [Grade A]



Designated as an
Excellent Technology Research Center (ATC)
in 2017 [Global Convergence]

Date	Organization Name	Description
2013.04.03	Korea Disability Human Rights Forum	Olleh.com Web Accessibility Certification
2009.04.08	Korea Communications Commission	Location-based service business certificate
2002	Ministry of Information and Communication	Selected as Korean mobile standard platform provider
2002	Ministry of Information and Communication	Selected as a standard COD operator for Korean mobile
2002	International Organization for Standardization	ISO9001 Certification
2001.06.26	Korea Technology Credit Guarantee Fund	Blue Chip Technology Company Designation
1999	Ministry of Information and Communication	WebMAS (Internet GIS-based commercial area analysis system) Recognized as an excellent technology by the Ministry of Information and Communication
2017.05.10	Korea Association for ICT Promotion(KAIT)	Information Security Readiness Assessment [Grade A]
2017.07.19	Ministry of Trade, Industry and Energy	ATC designation
2018.05.10	Korea Association for ICT Promotion(KAIT)	Information Security Readiness Assessment [Grade A]
2019.01.21	President, Korea Information and Communication Technology Association	Software Quality Certificate
2019.11.20	Korea Association for ICT Promotion(KAIT)	Information Security Readiness Assessment [Grade A]

Appendix Additional Supporting Documentation - Patents and Awards Details

Awards



Global Software Competition
(Silver Award)



Smart App Award
Membership Field (Grand prize)



Web Award Korea
Web Standards Innovation
(Grand Prize)



Web Award Korea
Telecommunications (Grand Prize)



Web Award Korea
Convergence (Grand Prize)

Year of Award	Organization Name	Description
2007	Korea Internet Professional Association	Web Award Korea 2007 Grand Prize in Telecommunications Winner of the Service Innovation Award
2008	Korea Internet Professional Association	Web Award Korea 2008 Grand Prize in Telecommunications Winner of the Service Innovation Award
2008	Korea Internet Professional Association	Web Award Korea 2008 Convergence Grand Prize Winner Service Innovation Grand Prize Winner
2010	Korea Internet Professional Association	Web Award Korea Excellence in Telecommunications
2010	Korea Internet Professional Association	Web Award Korea 2010 Grand Prize in the Mobile Device Category
2010	Korea Internet Professional Association	Product Brand Excellence Award
2011	Korea Internet Professional Association	Grand Prize for Enterprise Business Unit Consolidation
2011	Korea Internet Professional Association	2011 Internet Eco Grand Prize
2011	Korea Internet Professional Association	Smart Award Korea 2011 Grand Prize in Corporate Services
2011	Korea Internet Professional Association	Smart Award Korea 2011 Best in Corporate Services
2012	Korea Internet Professional Association	Web Standards Innovation Award
2014	Ministry of Science and Technology	Filename Automation-based Work Data Cloud Platform Silver Award Application SW Division
2016	Korea Internet Professional Association	2016 SMART APP AWARD Membership Category Grand Prize

Thank You