ALL for LAND

www.all4land.com

ALLFORLAND

A smart service that collaboratively fulfills customers' dreams by leveraging ICT and spatial information

CONNECTING SHARING & SHOWING

Being Contributor for Human Happiness Enhancing Justice and Transparency With Spatial Information Technology

CEO's Message

Leading the public service improvements
based on creative mind and continuous technology innovation.

Since 2004, AllforLand has been achieving tremendous performances and creating explosive synergy through accumulated technologies on building GIS data and on developing GIS software & platform, to cover land and ocean both.
By these accumulated technologies AllforLand has been attributing to improve public administration services and transformed to the provider of General Spatial ICT service.

In particular, not staying only in the traditional GIS market, we are widening our competency to the state-of-art technologies such as Big Data Analysis, Cloud Service, Autonomous, Vehicle Map, 3D Map, Digital Twin Metaverse, etc. We have been focusing to improve the efficiency on the public fields - ocean, land, cadastral, construction, disaster, etc. On the other hand, we are cultivating the ability to manage large scale SI projects with verified quality assurance.

AllforLand is going to make "Alliance for Geospatial Information Service" from building spatial information to providing geospatial service based on the information, accelerating cooperation between the alliance members.

We promise to provide advanced better services at various areas through the alliance. Your attention makes us work and grow.
AllforLand will do our best to create the best value for you.

CEO **Kim, Byoung Ki**

Resources

Allforland is fully equipped with excellent human resources, high-performance equipment, and proven technology making customer's dreams come true together.

Human Resources

System Development
168 Persons

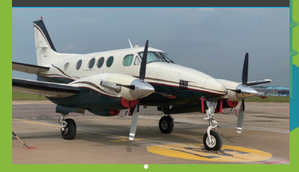
Database Construction
142 Persons

IT Tech Research
61 Persons

Planning, Sales, Management
46 Persons

Hardware
Software

Aircraft



Drone

DJI M300

Aerial Survey

CostalMapper

CityMappe I

CityMappe II

CountryMapper

Train MMS | Leica Pegasus 2 Ultimate

MMS

Pegasus II

MMS | Leica Pegasus 2 Ultimate

MapPrime
2D /3D GIS
OGC Standard Server
2D/3D Geospatial Solution

MapPrime
RECON
3D Surface Reconstruction from
2D images using AI

MapPrime
CityGML
CityGML Conversion and
Validation, Tileset Conversion

MapPrime
Euler
AI Agentic Platform with
Multimodal Search, LLM, and GEO AI

MapPrime
ENC
Marine Spatial Solution Covering 2D,3D,
and S-101 electronic Navigation Chart, etc.

MapPrime
CLOUD
Cloud Platform to product,
share and distribute geospatial data

Reverse Engineering

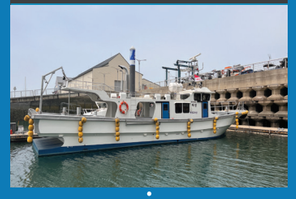
Terrestrial LiDAR

RTC360

Backpack LiDAR

Pegasus Backpack

Vessel



Hydrographic Surveying and Exploration

Sub-seabed Exploration

Side Scan Sonar Survey

Bathymetric Surveying

Marine Observation

Tide

Wave and Current

Currents and
Seawater Circulation

FIELD SURVEY & DB CONSTRUCTION

High-quality spatial information
Guaranteeing accuracy,
consistency and up-to-dateness

Spatial Information Establishment in North Korea

Oceanographic Measurement

Underground Measurement

Ground Measurement

Indoor Measurement

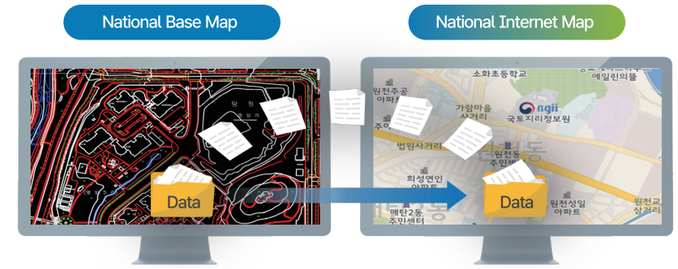
Ground

We produce high-quality spatial information synchronized with the real world by utilizing high-precision survey data and attribute information of topographical features.
In addition to updating maps based on change detection, we construct specialized thematic maps to solve current issues and support decision-making across various fields

Change Detection & National Map Update

- National Land Information Platform
- Updating Navigation Routes
- Updating New Building for Address Search
- Updating New Features for Disaster Response

Change detection is to identify the geographic changes automatically or semi-automatically by analyzing time-series geographic data such as aerial imagery, satellite imagery, and LiDAR. Identified changes are rapidly integrated into the national map, after refining and verifying.



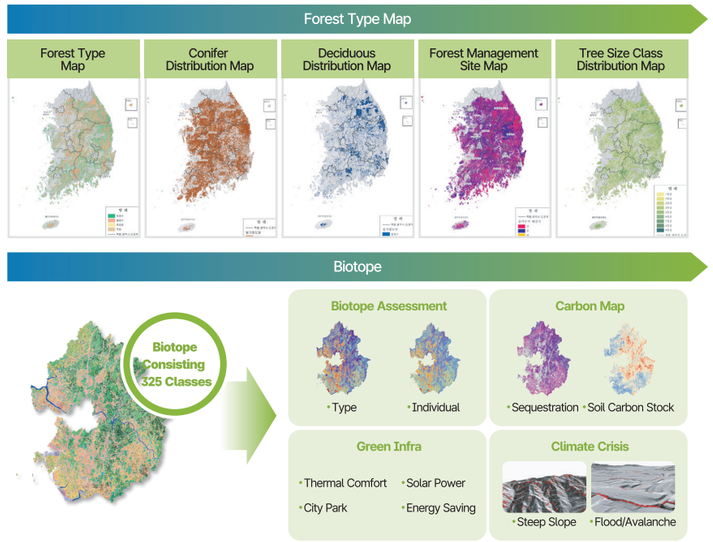
< Changes on Land >

< Continuous Updating >

Forest Type Map & Biotope map

- Forest Type Map by LiDAR & AI
- Biotope Map with Hierarchical Classification
- Ecological network analysis map
- Biotope evaluation map
- Carbon spatial information map
- Green infrastructure analysis
- Climate change adaptation map

We produce forest type maps and Biotope maps to support decision-making in forest policy.



HD MAP (High-Definition Map)

By utilizing Mobile Mapping System (MMS) equipment, we construct 3D high-definition (HD) road maps with centimeter-level accuracy. This supports the safe operation of autonomous vehicles as well as overcoming the limitations of traditional paper drawings and 2D-based road management.

High-Precision Road Map

National Geographic Information Institute

· High-precision road map production (new)
· High-precision road map update

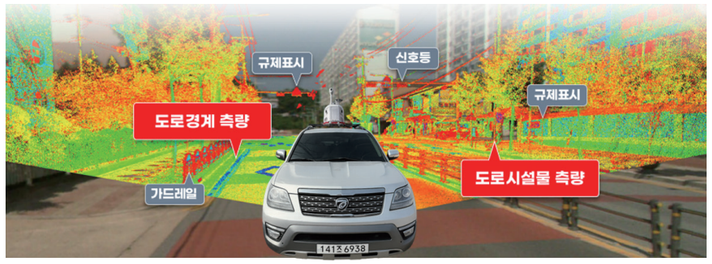
We develop centimeter-level high-precision 3D digital maps (within 10-15Cm), including lane centerlines, regulatory lines, road boundaries, and road surface markings, to support safe operation of autonomous vehicles.

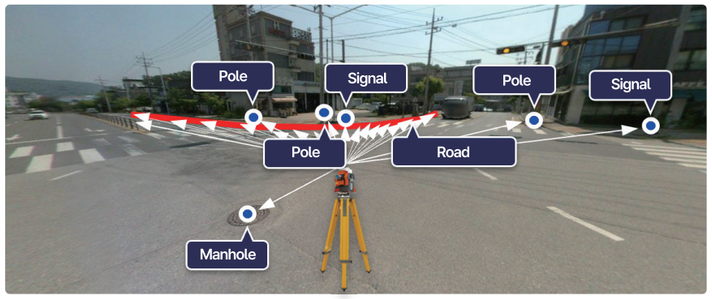
MMS-based Road Register

Road Register based on integration of

· MMS
· Field Survey
· Longitudinal Section Drawing
· Cross Section Drawing

MMS-based road register improves the efficiency of road maintenance by visualizing roads and underground facilities in 3D and constructing database, which goes beyond the limits of traditional road register like paper or 2D drawings.





Railway infrastructure & Underground Utilities

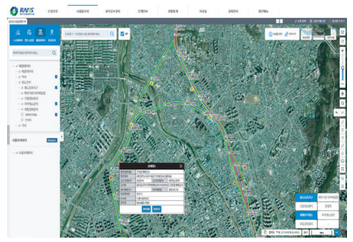
By utilizing MMS equipment, we construct 3D spatial information for railway infrastructure and underground utilities to synchronize them with the real world.
Building precise data on location, geometry, and attributes enables intuitive facility management.

Railway Facility Spatial DB

Korea National Railway

· Construction of GIS DB on Railway facility
· Update Constructed Information

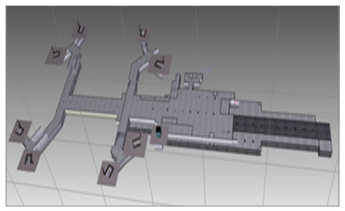
We construct GIS DB on railway facilities using MMS mounted on trains or track vehicles, which acquires high-precision 3D data of railway facilities.

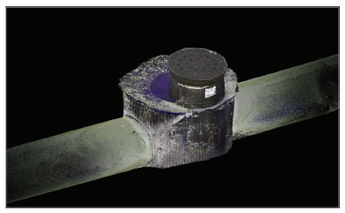


Underground Space 3D Survey

· Integrated Underground Space Maps
· Sewage Facility LiDAR Survey Project

Compiling 3D geospatial information about underground facilities, structures, and ground to facilitate the development, utilization, and management of underground spaces, including measures to prevent ground subsidence.





Ocean

We build spatial data through marine surveys of seabed topography and coastlines, while monitoring oceanic conditions including tides and waves. By converging this data, we provide essential maritime intelligence for analyzing coastal changes, forecasting marine conditions, and supporting the engineering of offshore structures.

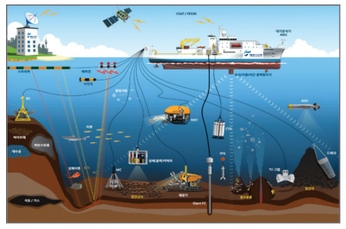
Marine Survey & DB Construction

High-Precision Hydrographic Survey & Marine Investigation

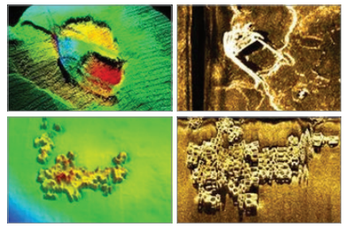
Coastal Seabed Operational Environment Survey

- Marine Basic Survey by Area
- Coastal Area Survey
- Coastline Change Monitoring
- Beach Use Environment Survey
- Terrain Displacement on Submarine Pipeline Riverbed Elevation Survey
- Hydrographic Surveying and Other Maritime
- Survey of Suitable Sea Forest Sites
- Survey on Artificial Reef Installation Status

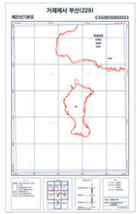
The integration of multi-beam echo sounding, seafloor imaging, sub-bottom profiling, and high-precision positioning systems supports safe vessel navigation as well as marine development and military operations.

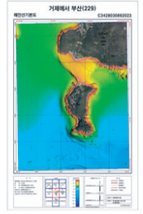


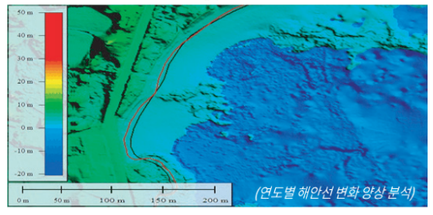
<Multi-purpose Marine Survey>



<Seafloor Anomaly Detection (e.g., Artificial Reefs) >







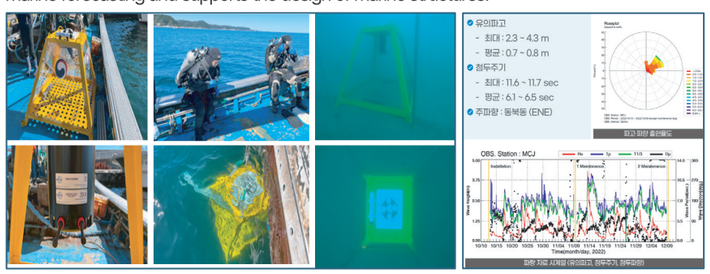
<Coastline Change Monitoring>

<Spatial Analysis based on Data from Past to Present>

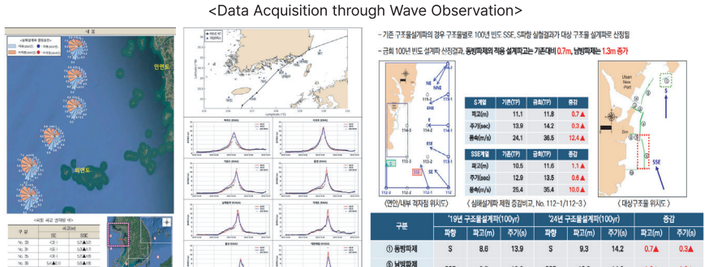
Marine Observation & Numerical Modeling

- Observation and Data Analysis on Long-term Tide and Current
- Basic Level Points Survey
- Verification of Ocean Current Observation Data
- Detailed Coastal Erosion Survey
- Offshore Civil Engineering Survey (Saemangeum area)
- Development of AI-based Data Analysis Model

Long-term observation and analysis of tides, currents, waves, and wave heights are conducted to understand the characteristics of marine environments. The analyzed data is applied to marine forecasting and supports the design of marine structures.



<Data Acquisition through Wave Observation>



구분	'19년 구조물설계력(100yr)			'24년 구조물설계력(100yr)			증감	
	파향	파고(m)	주기(s)	파향	파고(m)	주기(s)	파고(m)	주기(s)
① 동방파제	S	8.6	13.9	S	9.3	14.2	0.7▲	0.3▲
② 남방파제 (2단계)	SSE	9.5	12.9	SSE	10.8	14.2	1.3▲	1.3▲

<50-year Analysis of design waves, wind fields, and impacts on major ports>

Offshore Wind & Marine Spatial

Based on various marine surveys, observations, and integrated decision-making data, we actively participate in offshore wind policies and regulatory frameworks. We also establish marine spatial information that provides optimal decision support across specialized fields, including tidal flats, uninhabited islands, and submarine geology.

Offshore Wind

Feasibility Study & pUXO Survey

Domestic Offshore Wind Market Engagement

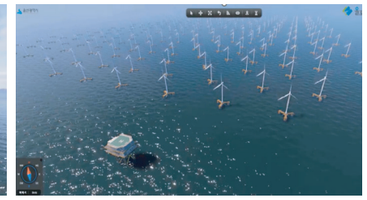
Discussions Participation

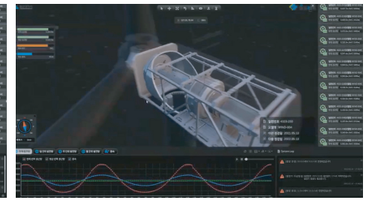
- Participation in task forces for subordinate legislation under the Offshore Wind Act
- Proposal of the Enforcement Decree of the 「Special Act on Promotion of Offshore Wind Power Deployment and Industrial Development」

Global Collaboration Network

- Foundation for collaboration with 5 key companies in Europe and Asia (UK, Japan, Singapore, Vietnam)

Feasibility studies are required, using high-precision surveying equipment integrated with ROTV to select a suitable site. We propose reasonable risk level-ALARP- through pUXO surveying.

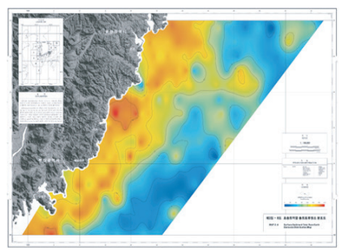




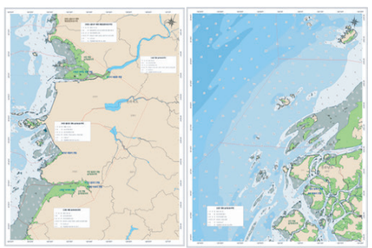
Marine Spatial Information Construction

- Nautical Chart
- Marine Safety Map with Small Vessel Safety Information
- Uninhabited Island survey
- Map for Marine Spatial Planning
- Tidal Area Survey
- Marine Geological Map

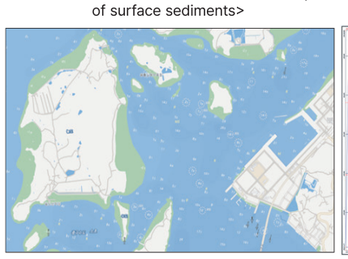
As demand for marine data increases across social, economic, environmental, and policy areas, marine thematic maps are produced based on user requirements. Those maps support multi-dimensional decision-making by integration of various data.



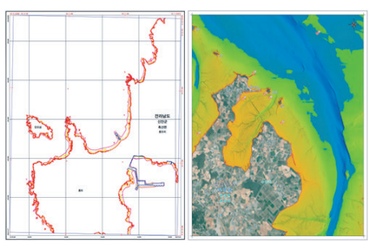
<Total rare earth element distribution map of surface sediments>



<Tidal flat area status map>



<Basemap around Mokpo North Port>



<Coastline Base Map & Tidal Creek Distribution Map>

Satellite Data Processing

Leveraging satellite technology to monitor global changes ahead of the curve,
we continue to accumulate specialized experience and technical insights.
We develope and validate automated mapping solutions for high-resolution images produced by the KOMPSAT series.

Arirang Satellite GCP Chip / DEM Verification

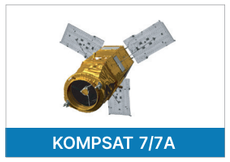
Based on Arirang-3, 3A and 7 :

- GCP Chip Construction and DEM Verification
- Management of GCP Chip / DEM
- Module Development to Update GCP Chip Automatically
- Web System Development to Manage High-Precision Orthoimages

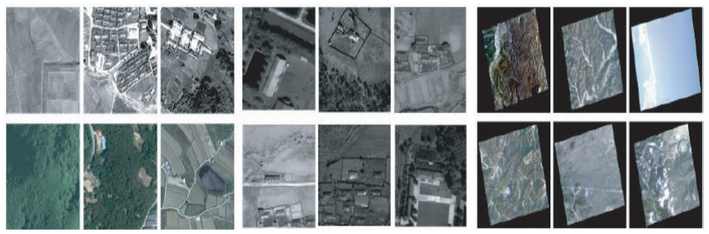
High-precision orthoimages and GCP chips are produced automatically from satellite imagery acquired from KOMPSAT-3, 3A, and 7. Web systems manages the produced orthoimages and GCP chips.

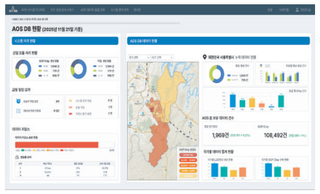

KOMPSAT 3

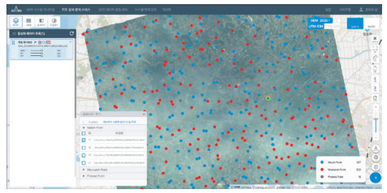

KOMPSAT 3A


KOMPSAT 7/7A

<Automatic Construction of GCP Chip and DEM Verification>





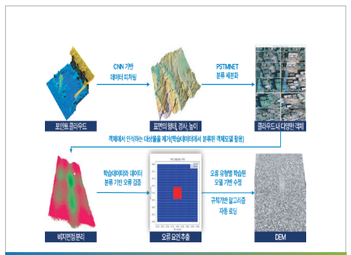


Arirang Satellite DEM Refinement

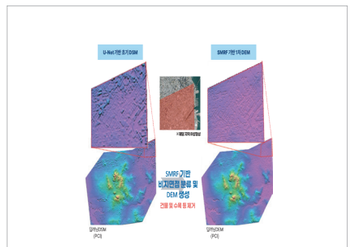
Based on Arirang-3, 3A :

- Development of DEM refinement based on deep learning AI model

AI deep learning-based DEM refinement technology automates noise removal and occluded area interpolation during DEM generation from point cloud data from satellite data.



Application of deep learning techniques in DEM refinement



Removal of non-ground points based on SMRF

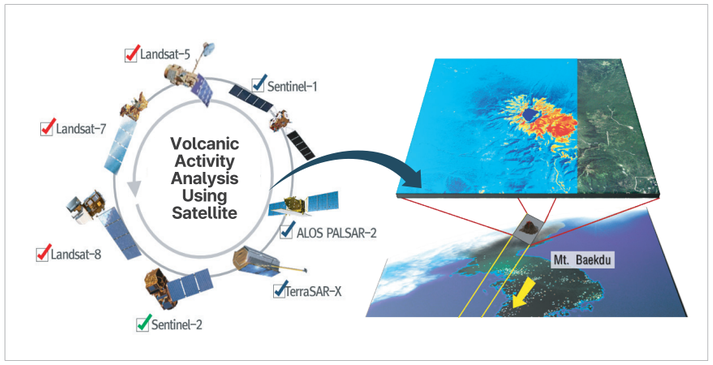
SAR Satellite & Maritime Communication

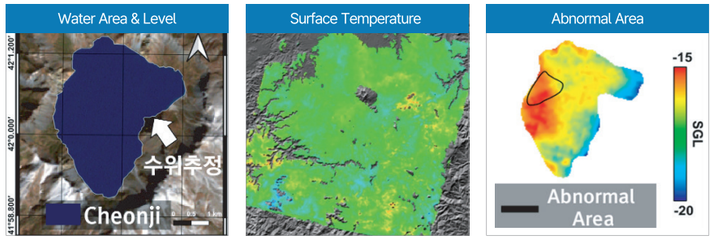
We are conducting surface displacement monitoring using SAR satellites.
And we are involved in developing communication equipment to enable VDE-next maritime communication protocol- via microsatellites.

K-VOMS Volcano Monitoring System

- Optical and SAR satellite
- Development of Volcano Monitoring System

K-VOMS is an integrated web-based monitoring system that processes the entire workflow from monitoring to analyzing and reporting of volcanic activity using satellite imagery.

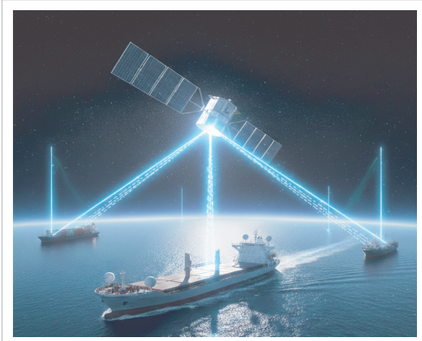




VDES Satellite

- VDES Ship Station
- Intelligent VDES-SAT station
- Operation SW at Ground Station

We develop the integrated maritime communication using microsatellite to overcome coastal coverage limitations through satellite-to-vessel VDES communication.



VDES Ship Station

- Bidirectional communication
- LEO satellite communication
- SW interfacing ground & satellite

Intelligent VDES-SAT Station

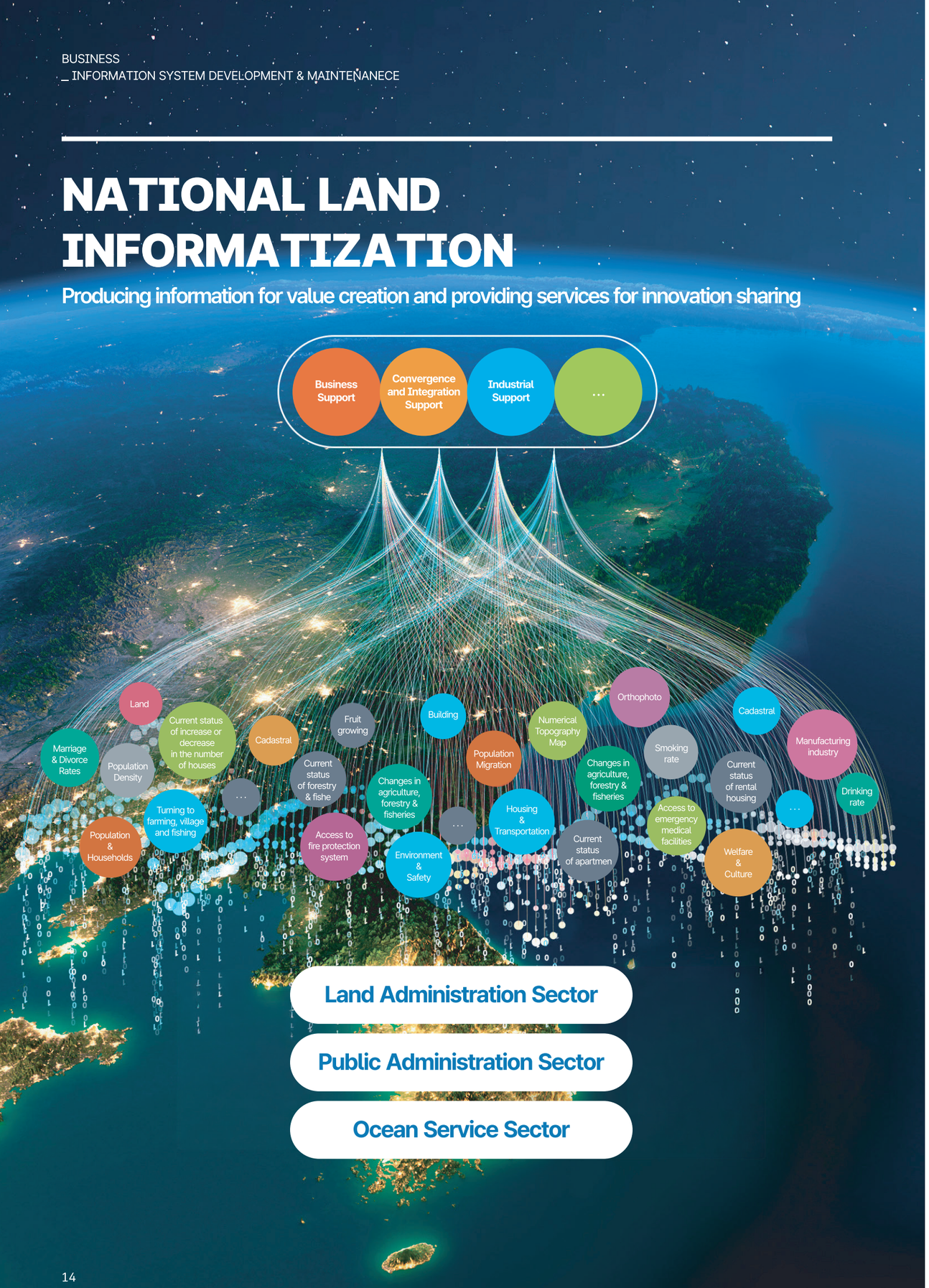
- Flight Model (FM) and space environment testing
- LEO satellite communication

Operation SW

- Communication Data Processing
- Automatic Operation

NATIONAL LAND INFORMATIZATION

Producing information for value creation and providing services for innovation sharing

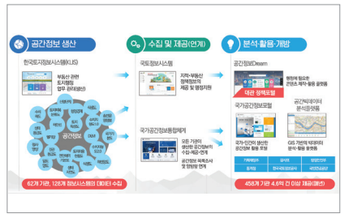


Land Administration Sector

AllforLand offers an efficient business support system and various civil services nationwide, leveraging spatial information such as land, buildings, and orthophotos.

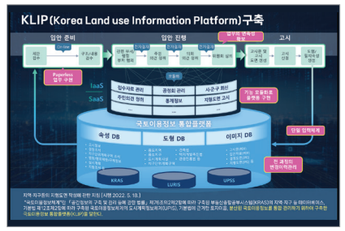
K-Geo Platform

K-GEO is the integrated data share platform, collecting all the national spatial data and serving as data hub for sharing them It provides not only easy access to the collected spatial data but also, provides Play Ground service merging the user's own data into the spatial data on the platform to make better servcies according to the user's own purpose



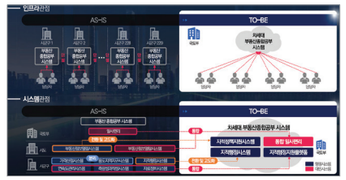
Korea Land use Information Platform (KLIP)

KLIP is unified entry system required for government work related to land use planning and land use control under current national land use information system.
It leads the paradigm changes on urban planning and land use



Korea Real Estate Administration Intelligence System

Individual property registry systems by local governments are ni tegrated into one system under cloud environment for efficient formulation of national policy on property
It establishes the working system based on land registration book and the utilizing system of the integrated property data



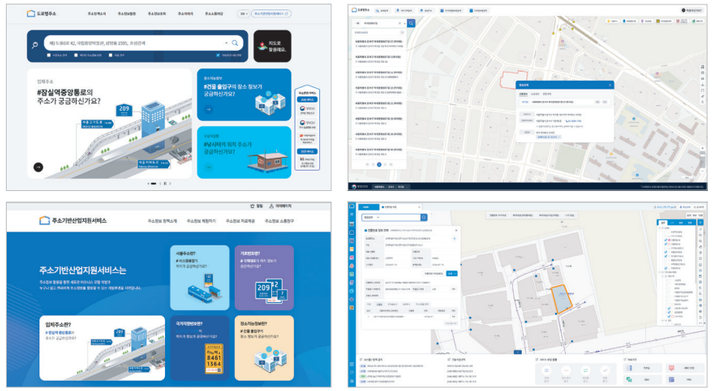
Public Administration Sector

We develop and operate nationwide public information systems that serve as the foundation of national administration. We provide not only enhancing the operational efficiency of public officials, but also critical information, such as address services and disaster alerts, to the entire nation.

National Address System

The National Address System provides services to over 500 million visitors per year, manages 5.3 million datasets, and interfaces with around 35,000 other information systems. The system provide not only stable address service but also support to identify new growth opportunity by address utilization and data convergence.

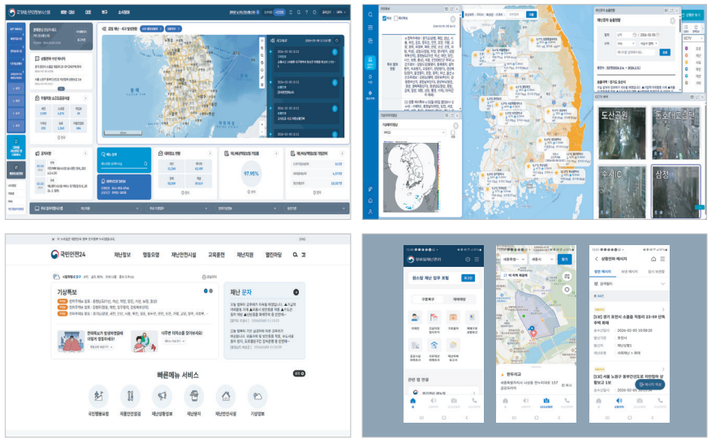
- National Address Information System
- National Address Basic Map



National Disaster Management System

As a national integrated information system, the NDMS supports every stages of the disaster. It detects disasters and provides real-time emergency alert to citizens.

NDMS Portal
GIS Integrated Dashboard
Public Safety 24
Mobile Disaster Management



Administration with AI

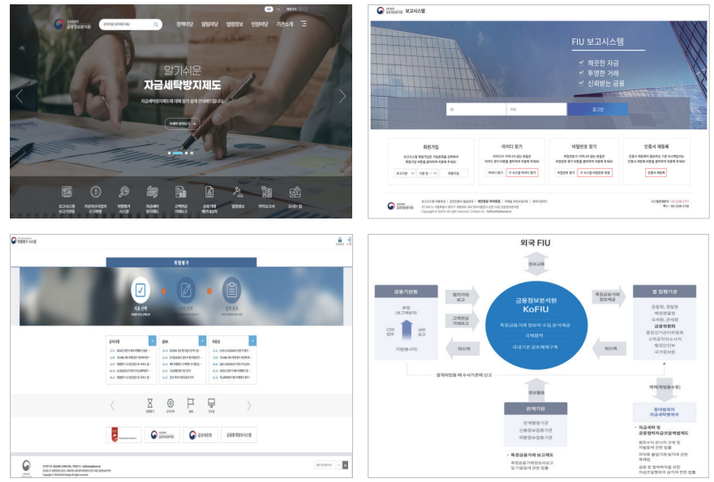
We are advancing administrative systems by leveraging AI technology.
With AI, FIU Financial Intelligence System tracks fund flows to detect suspicious transactions, and the Digital Food Information Platform supports the effective AI transformation of food enterprises.

Financial Intelligence Analysis

The FIU system analyzes STR and CTR from institutions to prevent money laundering, evaluates financial institutions' compliance and management, and supports linkages with judicial, financial, and international systems.

Financial Intelligence System

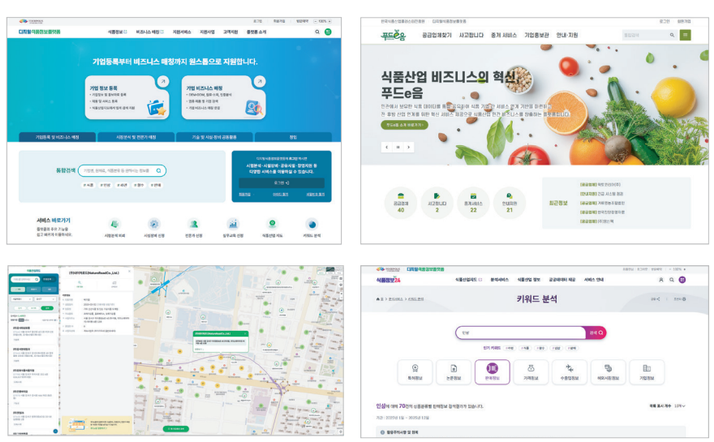
- STR (Suspicious Transaction Report)
- CTR (Cash Transaction Report)
- Information Provision and Reporting
- Risk Assessment



Digital Food Infor Platform

A digital food information platform and the Food-link system are developed and operated to support the K-Food industry, providing integrated information, services, support programs, and converged data for digital transformation. Food-link enables business matching across the food industry according to the value chain.

- Digital Food Information Platform
- Food Industry Business Innovation Platform (Food-link)



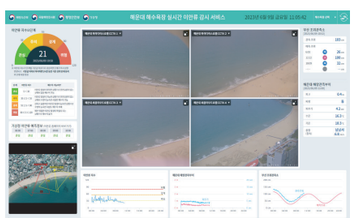
Ocean Service Sector

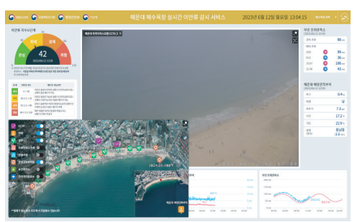
Marine spatial information systems provide practical marine information to the citizen and services to support policy making on marine safety and fisheries policies to the public officers.

Real-time Rip Current Monitoring Service

The real-time rip current monitoring service provides rip current alert level and marine information for safe coastal activities.

- CCTV-based real-time monitoring
- Rip current alert level
- Marine observation buoy data
- Tide observation data

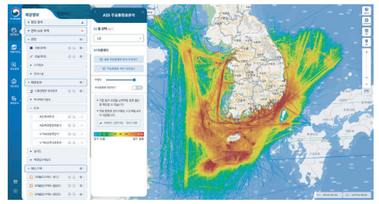




National Marine Spatial Information Platform

There are 2 kinds of National Marine Spatial Information Platform. The first one offers integrated marine spatial information to the public, and the second one supports MSP, fisheries, policy, and disaster prevention activities for the government.

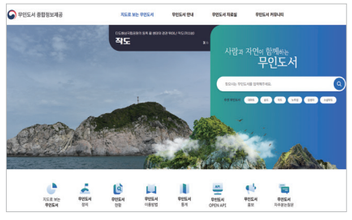
- Legislation-based marine spatial information
- Marine incident history data
- High-resolution data
- Haeareum (customized marine spatial base map)

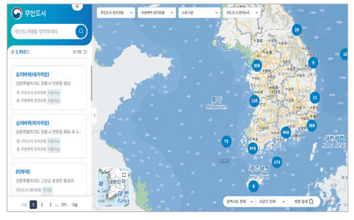


Uninhabited Island Information System

The Uninhabited Island Information System offers comprehensive data on islands, including basic profiles (name, location, area, distance) and integrated environmental-ecological insights spanning socio-economic, topographic, geological, and biological (terrestrial and marine) aspects.

- Map-based location service
- Status of uninhabited islands
- Definition of uninhabited islands
- Usage of uninhabited islands



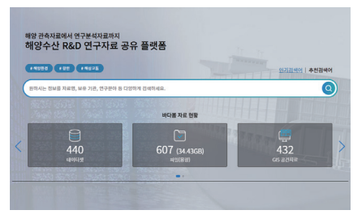


Marine Information Sharing System

The Marine Information Sharing System enables the use of marine and fisheries R&D data for research and industrial applications.

On Marine and Fisheries

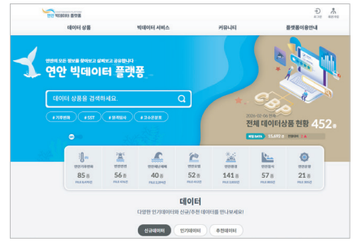
- Introduction, Policy, and Trend
- Sharing Data and R&D Outcome
- Work Force Development

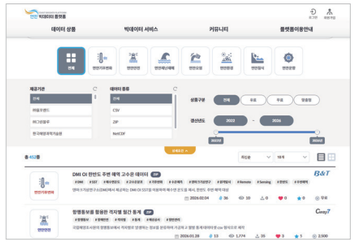


Coastal Big Data Platform

The Coastal Big Data Platform integrates coastal data and offers a marketplace to trade data products derived from the analysis, production, and management of data from each center.

- Searching Data
- Requesting Data
- Purchasing Data
- A City in Crisis as Reference of Big Data Applications





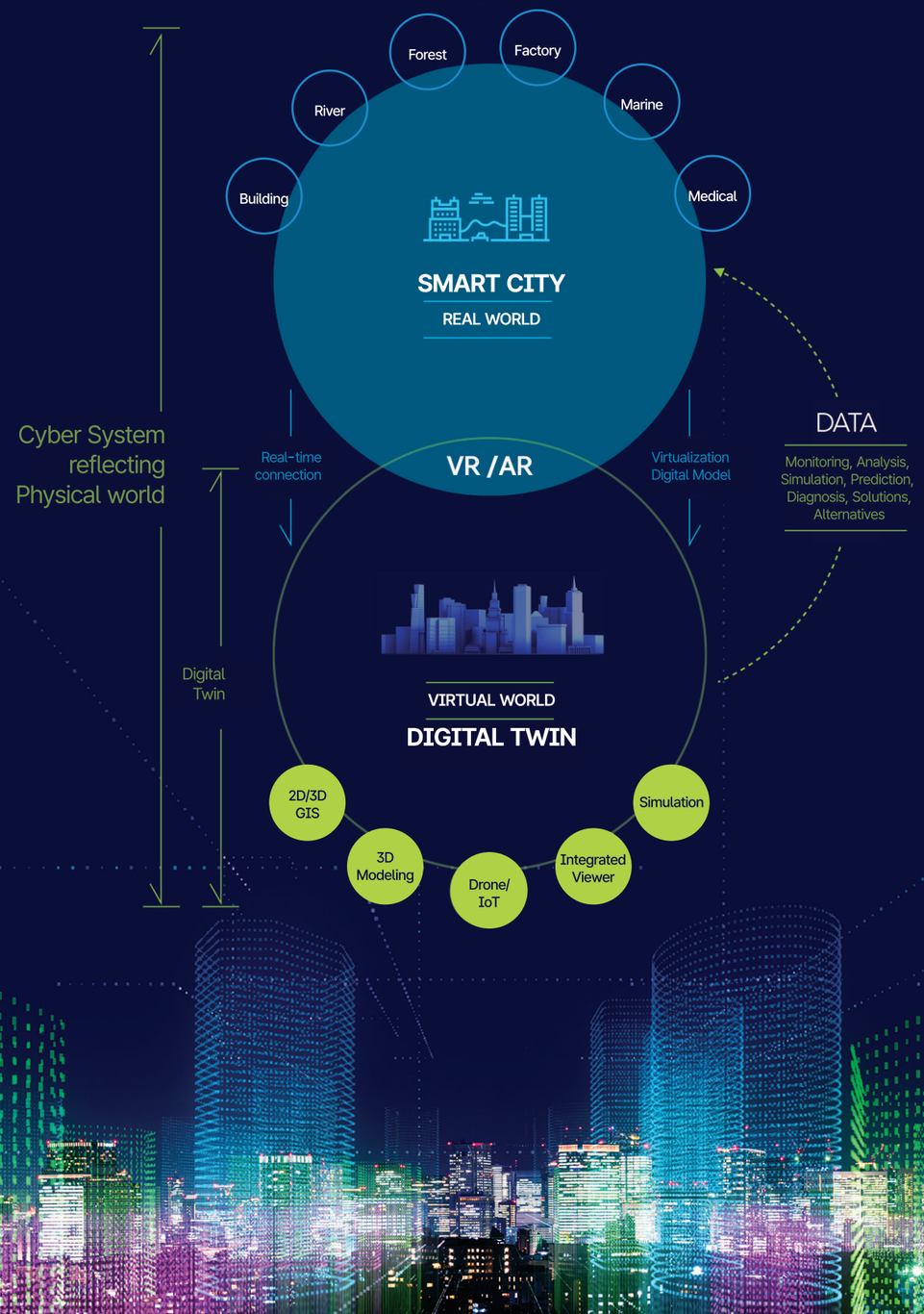
Marine & Fisheries Big Data Platform

The Marine & Fisheries Big Data Platform is a data hub that integrates marine, fisheries, maritime logistics, safety, and port data. It generates and provides high-quality datasets for research and industry through data integration and convergence.

- Marine spatial map
- Data search
- Sharing of analysis results
- Open API

DIGITAL TWIN

Building a digital twin based on connection and communication between virtual and real world

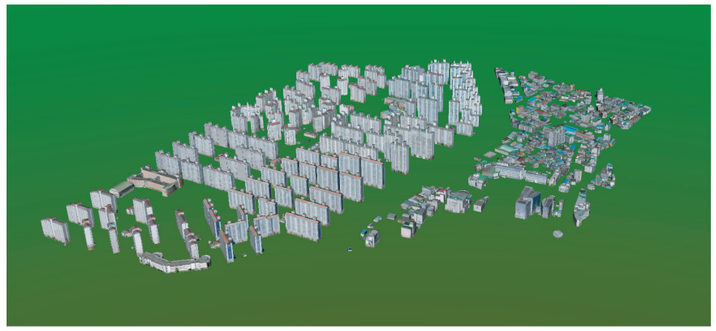


To solve urban problems and support smart cities using ICT technology, AllforLand is building a "Digital Twin", an innovative spatial information convergence and sharing platform that connects the real world and the virtual world.

Real-world Data Collection & Construction

- Advancement of 3D Spatial Information of Virtual Seoul
- Establishment of Digital Twin for Cultural Heritage Management of Jangneung Royal Tomb, Gimpo
- Establishment of Digital Twin-based Intelligent River Management System
- Digital Twin Administrative Utilization System, Yongin
- Building a Digital Twin Platform, Gyeongju/Sokcho/ Uiryeong/Hongcheon
- Establishment of Digital Twin, Deokjin
- Construction of Urban Air Mobility (UAM) Spatial Information

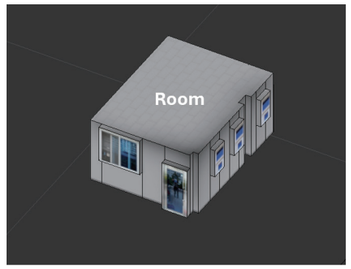
By constructing a high-quality, optimized GIS database using digital twin data construction technology, it serves as fundamental data for a 3D-based digital twin environment that can be utilized on various platforms.

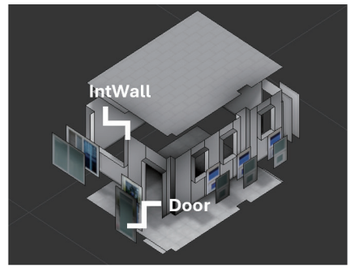


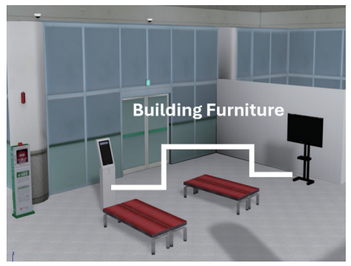
High-Precision Indoor & Outdoor 3D Modeling

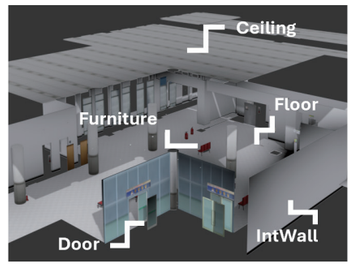
- Development of 3D Indoor and Outdoor 3D Model

We develop OGC-compliant, high-precision 3D models that cover both indoor and outdoor environment for various facilities.









DT | Smart City

It is possible to address various urban and regional issues through urban monitoring, analysis, and simulation using real-world 3D spatial information.

Digital Twin Based Map/Platform

- S-Map, Seoul
- Spatial Information Platform, Incheon
- LAND-XI Platform, Jeju
- Safety Management for Underground Facilities, Daejeon
- Intelligent Spatial Platform for Public Asset, Kyungbook
- Digital Twin Platform, Hongcheon
- Digital Twin Platform, Sokcho
- Digital Twin Platform, Uiryeong
- Digital Twin Platform for Land, Gyeongju
- Administrative Utilization,Yongin
- Budget Map, Gyeongsan


Urban planning management

DT | Marine

The Marine Digital Twin integrates land and sea into a unified 3D platform, empowering the marine sector with spatial insight to support decision-making.

3D Model Lib for Marine Object

Continuous Topographic Models by Vertical Datum

Visualization of Sea Level Variation

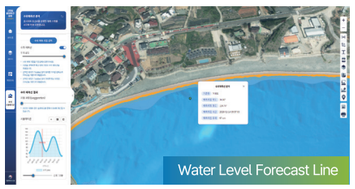
Water Level Forecast Line

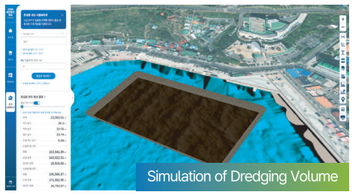
Simulation of Dredging Volume

Bathymetric Change Analysis

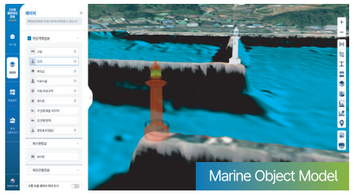
Safe Vertical Clearance


Visualization of Sea Level Variation


Water Level Forecast Line


Simulation of Dredging Volume


Safe Vertical Clearance


Marine Object Model


Vessel-Coastal Accessibility

DT | Forest

Through 3D visualization of individual tree analysis and monitoring, we offer intuitive smart forest management solution, including forest conservation, forest management, and urban carbon reduction.

Forest Thematic Map Visualization

- Landslide
- Fire Risk Index
- Fire Vulnerability

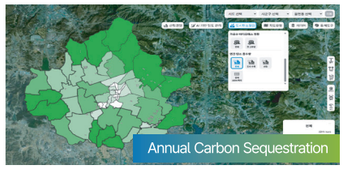
Forest Data Monitoring

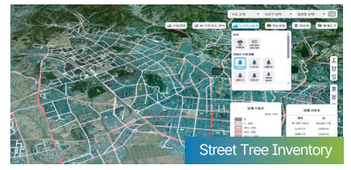
- Tree Species/Height/ Diameter at Breast Height (DBH)
- Biomass
- Carbon Emissions

Forest Management Analysis

- Estimated Revenue from Timber Harvesting
  Annual Carbon Sequestration Analysis


Forest Thematic Map


Annual Carbon Sequestration


Street Tree Inventory


Forest Management


Carbon Emission

Carbon Emission Analysis

DT | Plant/Factory

We develop spatial data for complex structures, facilities, and IoT sensors in large-scale plant sites. By integrating this spatial data with real-time IoT, worker, and process information, we enable advanced diagnostics and analysis. Based on this integration, we provide the smart services for efficient plant and process management.

Cheongju Industrial Complex

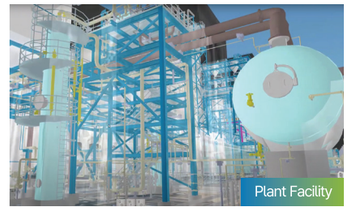
- DT-Based 3D Integrated Control Platform

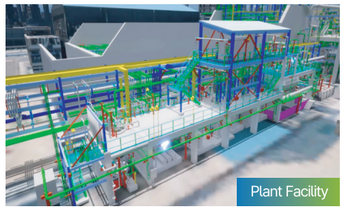
Hanwha TotalEnergies Petrochemical

- Integrated Complex Digital Map
- Emergency Control System
- Emergency Gas Detection & Alarm System

Hanwha Ocean

- HSE Integrated Control System
- Smart Safety Plant Control System


Plant Facility


Plant Facility


Real-Time Monitoring


Real-Time Monitoring


Smart Factory

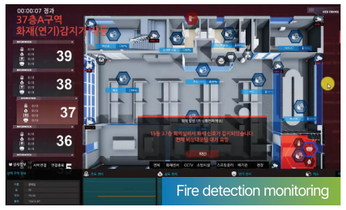

Virtual Tour

DT | Disaster & Safety Management

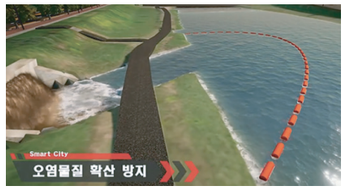
We provide safety management services at both regional and building levels to respond promptly to various disaster situations such as fire, collapse, and flooding. By integrating various IoT devices such as motion detectors and fire detectors with spatial information, we minimize disaster damage.

- CPS Construction for Disaster Response in High-rise Mixed-use Facilities
- BIM-based Digital Twin for Dam and River
- Establishment of Firefighting SMAP System
- IoT-based Real-time Wildfire Administration Support


Fire detection



Fire detection monitoring

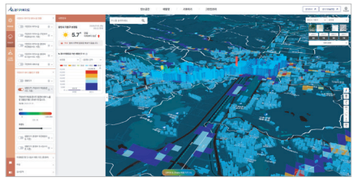


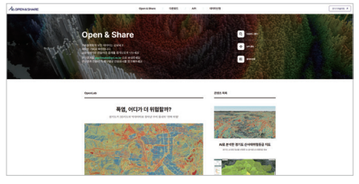
DT | Climate

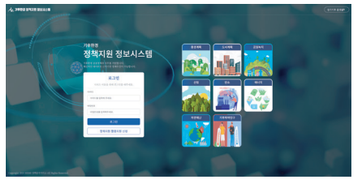
The Climate Platform aims to reduce climate inequality in the era of climate crisis. By promoting data sharing and collaboration, tt supports data-driven decision-making and fosters a region-led climate response ecosystem.

Climate Platform

- Climate Map Service
- Biotope Map Service
- Climate Management Service for SMEs
- Open & Share Service
- Policy Support Service







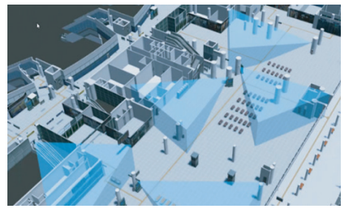
DT | CCTV Security

We enable the overcoming of the limitations in the security sector, which relies on limited manpower and resources, by integrating AI-equipped CCTV with spatial information.

- Railroad Facility Maintenance History DB Spatial Information System
- Construction of Rail View System for Railways
- Intelligent Railroad Security Information System


Virtual patrol


Route tracking

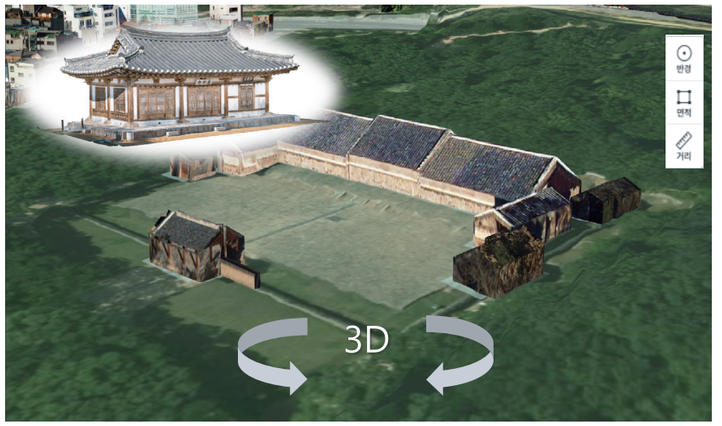


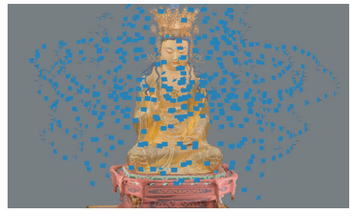
DT | Culture

We precisely record national heritage resources using advanced 3D technologies and provide 3D content services. By sharing these assets with the public, we helps the groundwork for the digital transformation of national heritage.

Korea Heritage Service

- Integrated Database for Original Records of National Heritage





NEW TECHNOLOGY & MARKET

AI Sector

Next-Generation Maritime Communication

AI Live Bus Service

Overseas Projects

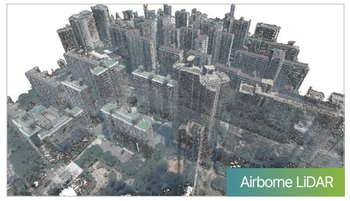
AI Sector

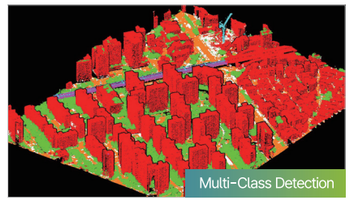
Leveraging AI, we not only automatically classify various facilities from Airborne LiDAR point cloud data. Also we perform automated detection of diverse crops and forest species based on polygon-based deep learning.

GEO AI | AI Classification

AI Classification Model from Point Cloud Data

GeoAI-Classification Solution automatically identifies categories such as ground, buildings, vegetation from large-scale point cloud data (LAS/LAZ) acquired by airborne LiDAR sensors, and visualizes the results.





GEO AI | Object Detection

AI Detection of Individual Facilities within Ortho-Imagery

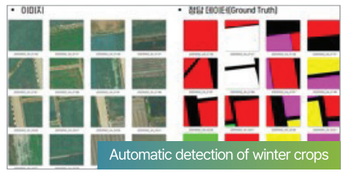
We innovate spatial data construction process by developing GeoAI-Object Detection that automatically identifies and maps the geometries of individual objects such as building, road and others.

GeoAI | Polygon

농작물 탐지

산림수종 탐지

The AI trained on aerial imagery of farmland automatically detects crop types and predicts crop yields based on spatial information. Also, the AI trained on forest data automatically detects forest species and environmental changes for carbon sequestration estimation.



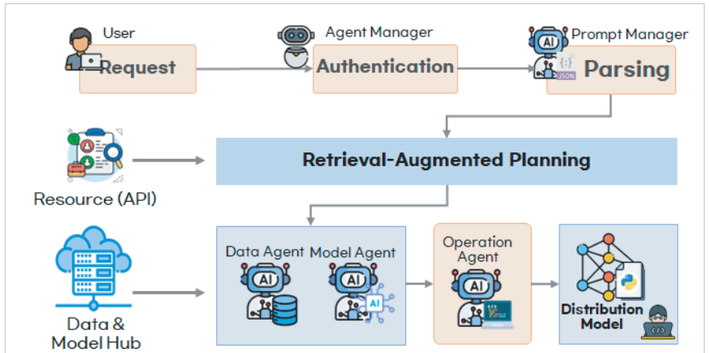
AI Agentic Platform

GeoAI, the eyes for spatial insight; Generative AI, the provider of solutions. We create new value through AI-converged services. MapPrime Euler is an AI platform that integrates GeoAI with various AI agents—including LLMs and multimodal search—offering flexible integration across diverse architectures-On-Premis or Cloud.

Agentic AI Platform Euler

Euler
· AI ecosystem orchestrating diverse AI agents
· Integrated management services

Euler, AllforLand's agentic AI platform integrates various AI agents including GeoAI, LLM, and RAG. It optimizes complex SI workflows by connecting with diverse data sources.

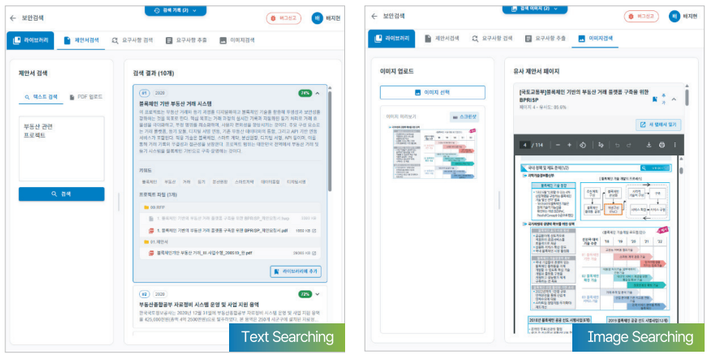


- Flexible deployment and operation supporting both cloud and on-premises
- LLM-based AI services integrating diverse domain data such as public services, welfare, and real estate, as well as confidential doc, data in groupware
- Accurate cross-format search with high maintainability, powered multimodal searching embeddings

Multimodal AI Search Solution Euler Search

Euler Search
· AI-powered Multimodal search solution

Euler Search is a multimodal embedding-based search engine that delivers comprehensive results by understanding various data formats -including text, video, audio, and spatial data- and similarity-based searching encompassing related references.

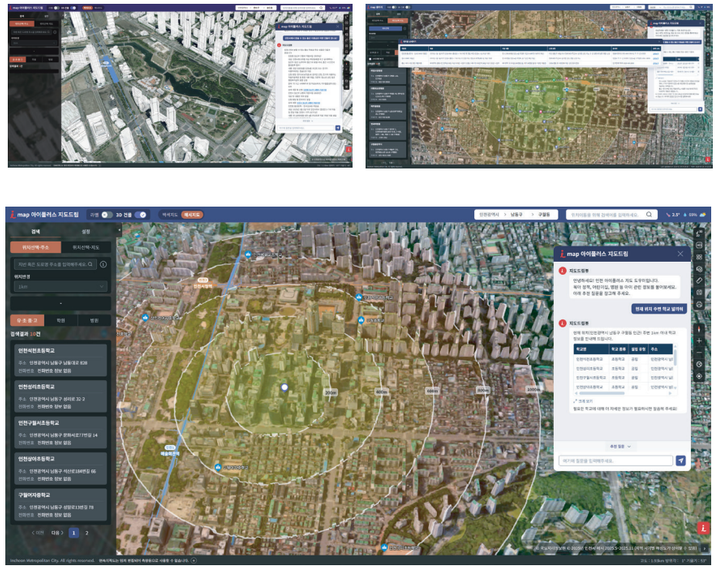


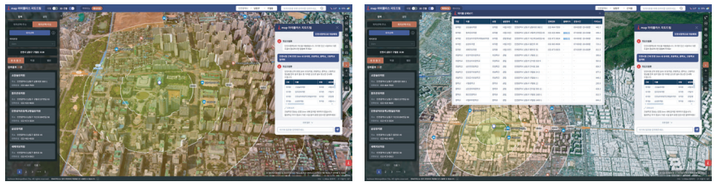
- Searching relevant documents according to the similarity based on the given text analysis
- Searching PDF based on given image
- Secure searching under both online and offline without external exposure

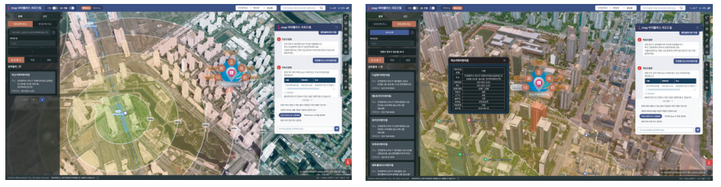
Digital Twin Service with Euler

· Digital Twin-Based Spatial Information Platform, Incheon

As an agentic AI platform, Euler not only deliver prepared services individually but also can be integrated with existing or newly developing information system, maximizing service value and efficiency.







Next Maritime Communication

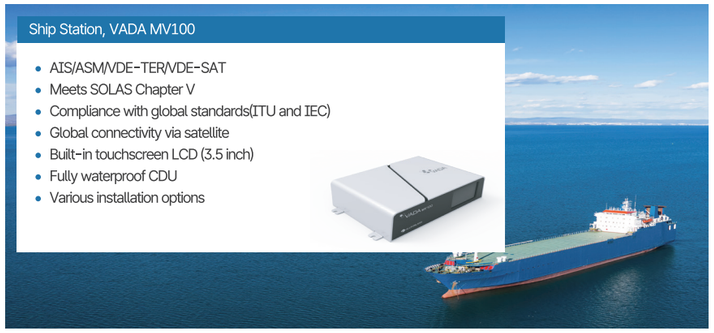
VDES is the next-generation maritime digital standard overcoming the limitation of traditional communication barriers, enabling faster and higher-capacity over longer ranges.
We provide a complete solution, from the ship-to-shore communication eqipment to the software managing the VDES communication.

Next Generation Maritime Communication VADA

VADA is AllforLand's next-generation maritime communication system combining proven AIS Class A navigation safety with VDES technology. It ensures reliable data exchange for positioning and identification as well as seamless communication between vessels and coastal stations. Designed for future expansion, it supports micro-satellites communications starting from 2028.

VHF Data Exchange System (VDES)

· R&D Project on International Standard-based Integrated Terrestrial-Satellite VDES System (2023–2027, Ministry of Oceans and Fisheries)
· Development of Next-Generation Digital VTS International Standard Services and Equipment (2025–2029, Korea Coast Guard)
· Development of a Maritime Digital Communication Channel Availability Analysis Tool (2025–2029, Korea Research Institute of Ships & Ocean Engineering)



- Real-time optimal slot allocation
- Individual/total slot statistics analysis
- Resource allocation prediction

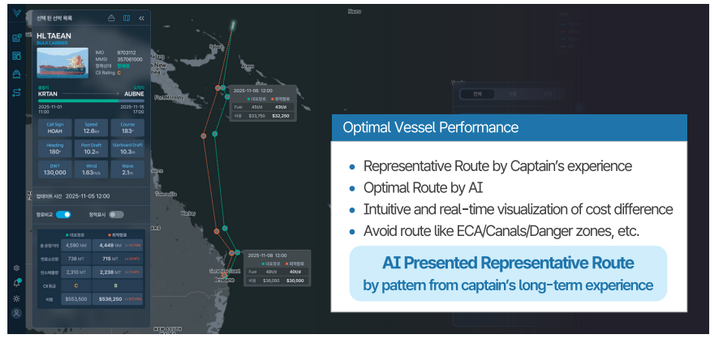
- Multi-application protocol conversion
- Network session management
- Compliance with IEC 61162-450

Ship Operation

We are developing maritime digital solutions for environment-optimized ship operations.
This involves extracting patterns from the extensive experience of captains and utilizing AI to reconstruct representative routes through deep learning.

Ship Operation Solution MOVIDIK

MOVIDIK is AllforLand's ship operation solution that optimizes performance by analyzing vessel, energy and environmental regulatory data. It ensures compliance with global regulations such as EU ETS, FuelEU Maritime, and CII on a single platform. Leveraging read-time data, MOVIDIC offers optimal routes, speeds, and fuel strategies alongside to reduce costs and carbon emission.



Overseas Projects

We are expanding our global reach by sharing Korea's advanced geospatial expertise with developing countries, offering services such as policy consulting, system development, and capacity building programs.

Spatial Information

Republic of Armenia

Republic of Peru

A cadastral management information system is essential to address uncontrolled urban development and unauthorized construction caused by rapid economic growth. We provide consulting on standardizing spatial data and establishing efficient land administration system.

Function Classification No.	SFR-MEM-01.3
Function Classification	Functional Requirements
Function Name	Outline-Setting
Parent Component	Layer Style Component
Detailed Description	

· Setting of Polygon's Outline Color/Thickness/Transparency

< Figure : Example of Adjusting Shape Outline Color/Thickness and Transparency >

Address Modernization

Republic of Uzbekistan

Kyrgyz Republic

A modernized address system serves as a key driver of nation growth by providing the foundation for economic development, new industry expansion, and innovation in public and daily life services.

Food Security

Lao People's Democratic Republic

We aim to maximize project impact by strengthening the institutional framework and data quality of Lao agricultural land information. Our goal is to build a sustainable information ecosystem by integrating three core pillars: human resources, institutions, and technology.

AI Live Bus Service

We build a sustainable smart mobility ecosystem by merging ICT precision with real-time AI analysis. Bus operators can now access AI vehicle management through smart subscriptions, without massive infrastructure.

AI LiveBus

Public Sector

· Wanju County
· Hongcheon County

Private Sector

· Hanyang University Medical Center

BMS (Bus Management Service)

Bus Information Service for Public

- Proprietary AI prediction using LG U+ ultra-precision positioning
- Provision of highly accurate bus arrival information
- Web-based service via QR code without app installation
- User-centric UI/UX accessible for all ages

Bus Management Service for Admin

- Real-time bus tracking and integrated facility control
- Optimized transport operations for admins and the public
- Low initial cost through cloud-based subscription
- AI based customer Service via LLM chatbots

e-BIT (e-Bus Information Terminal)

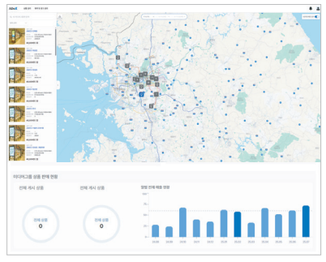
- Ultra-low power bus information terminal based on eco-friendly energy
- Selection of solar-powered or wired models based on power supply environment
- Remote monitoring function for terminal status

D'ooh Advertising Platform

D'ooh (Digital Out of Home, Integrated Solution for Digital Outdoor AD)

- AI-based & integrated platform for D'ooh (Digital Out-of-Home) media
- Integrated management from content registration, programming, to Ad transmission
- Analysis reporting on Ad effectiveness using LLM technology
- Customized ad transmission including rolling, synchronized, and scheduled modes

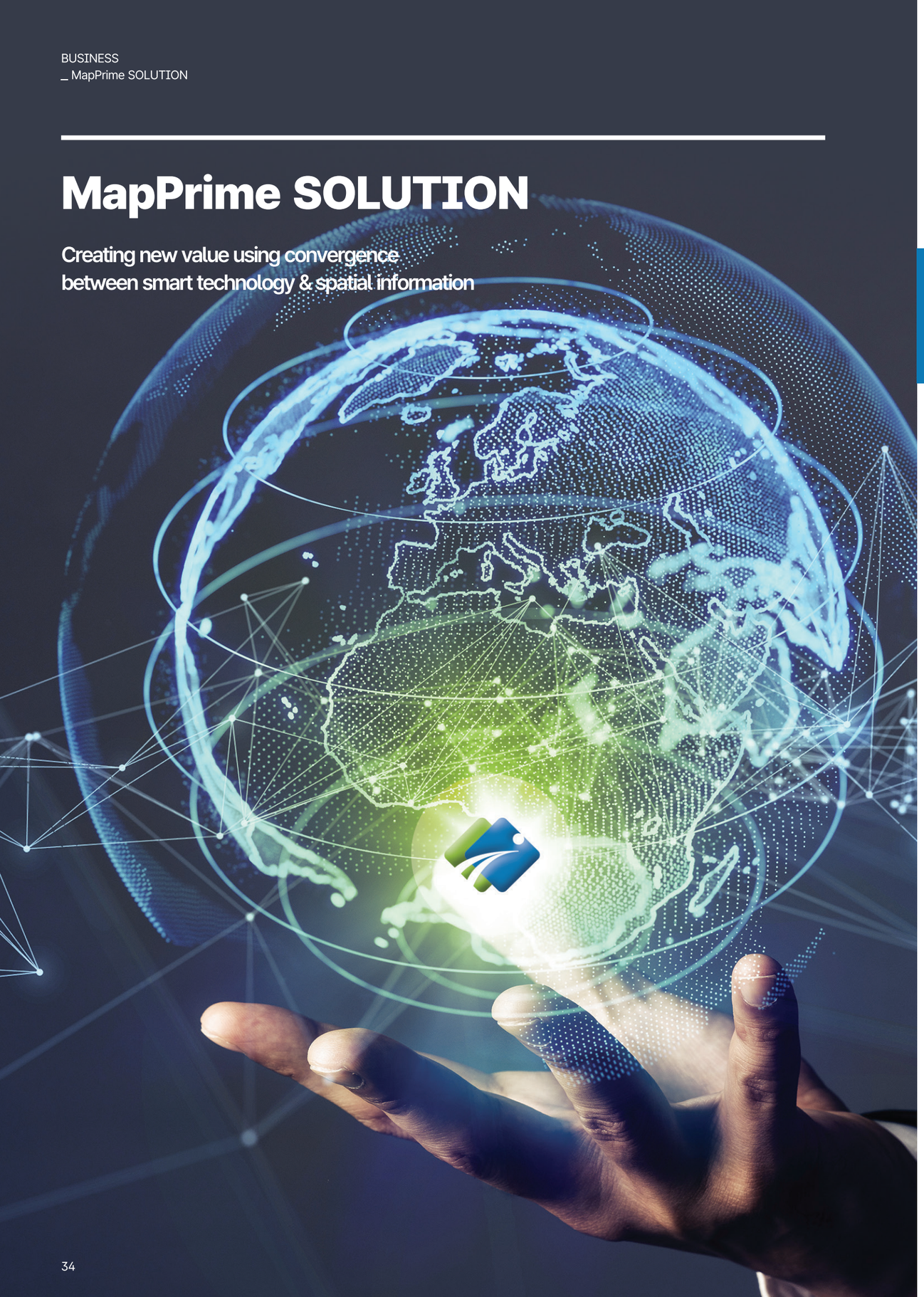
ADeX (Intelligent AD Exchange Platform)



- AI-based data analysis for advertisers and agencies
- Optimal media recommendation and purchasing through precise Ad targeting
- One-stop service from Ad purchase to transmission at D'ooh

MapPrime SOLUTION

Creating new value using convergence between smart technology & spatial information



All for Land has operated Real Estate Administration Information System for the past 10 years. Based on this experience, we possess MapPrime, a domestically produced spatial software that has been verified by a reputable organization.

2010 Unified Real Estate Administration Information Pilot Project

2011 Unified Real Estate Administration Information Project

2015 Maintenance and Operational Support for Real Estate Administration Information System

2024

mapprime for KRAS

- **Transition from foreign GIS solutions to domestic MapPrime solutions**
- Meeting the quality and performance standards of spatial information SW for the promotion
- Execution of projects for the development and support of domesict SW Industry

MapPrime GIS Server

- GIS data that works with various DBMS
- Support for multi-user environments, spatial operations, and spatial analysis functions
- Customization and integrated development through MapPrime SDK

MapPrime GIS Web Server

- Web-based intuitive capabilities management
- OGC standards support including WMS, WFS, WPS
- Monitoring and web-based management functionalities
- Support for various web servers & OS such as UNIX, Windows, LINUX

MapPrime SDK(C/S)

- Spatial DBMS, shapefile editing and management functionalities
- GUI-based convenient layer import/export functionalities
- Provision of components(OCX) and development APIs

GOOD Software

Korea Certificate Authority, TTA
(Telecommunications Technology Association)
GS (Good Software) Certificate

CERTIFIED OGC® COMPLIANT

OGC® Associate Member

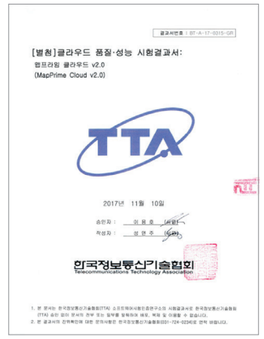
WMS 1.3.0

WFS 1.1.0

International GIS Standard Organization, OGC
(Open Geospatial Consortium)
WMS 1.3.0 / WFS 1.1.0 Compliance

Cloud Service Certification
November 25, 2016

Verification of Cloud Service Management System
October 31, 2017



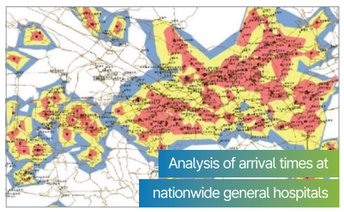
TTA Cloud Quality Performance Testing
November 10, 2017

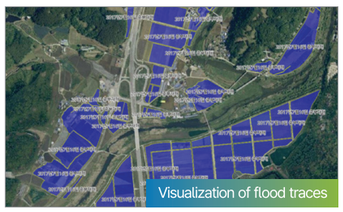
Copyright Registration
November 16, 2017

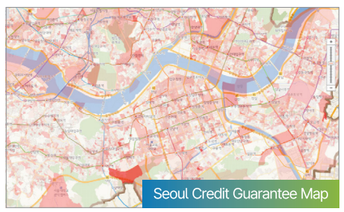
map prime 2D GIS

- Providing OGC international standard server, client, and tile map tools
- Support for various OS (Unix, Windows, Linux)
- Ability to build services complying with web browser standardsw ithout using ActiveX

- Korea Land Use Information System
- Integrated Real Estate Information System
- Geospatial Information Platform
- Digital Address Information Platform
- Pilot System for Railway Construction and Maintenance
- Geospatial System for Local Governments


Analysis of arrival times at nationwide general hospitals


Visualization of flood traces


Seoul Credit Guarantee Map


Safety map for beaches

map prime 3D GIS

- Seamless Integration and Visualization of Indoor and Outdoor Spatial Information
- Lightweighting of Large Construction Data (BIM)
- Query of Shape and Attribute Information by Spatial and Component Units
- Optimal Web and Mobile Environment Support and Provision of Various Clients

- Korea Land Use Information System
- Integrated Real Estate Information System
- Geospatial Information Platform
- Digital Address Information Platform
- Pilot System for Railway Construction and Maintenance
- Geospatial System for Local Governments


S-Map, Seoul


Samsung Display


Hanwha TotalEnergies

map prime CLOUD

- 1st GIS SaaS service in Korea through GSIP(Global SaaS Incubatni g Project) of Ministry of Science and ICT
- 2D and 3D Integration and MSA Architecture Transition for SaaSs ervice of public sector
- Geospatial Data Production, Analysis, Sharing, Distribution service based on Cloud Environment
- Certified SaaS by Korea Association of Cloud Industry, Compatible with K-Pass , Certified by Cloud Security Assurance Program

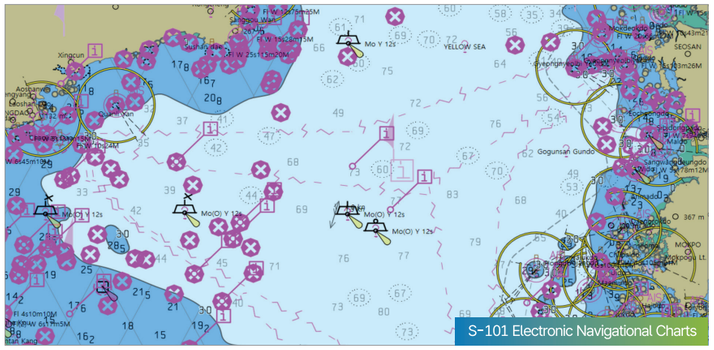
- Ministry of Science and ICT
- National Information Society Agency
- Ministry of Oceans and Fisheries
- Korea Land and Geospatial Informatix Corporation
- Gyeonggi Content Agency
- Ewha Womans University
- Meharry Medical College

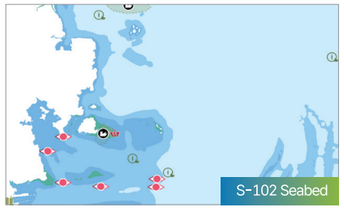

Digital Twin Content Creation and Distribution Framework

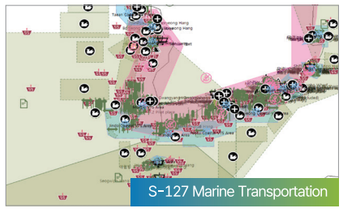
map prime ENC

- International Hydrographic Organization(IHO) generic route standard data management functionality
- Provision of S-101 electronic navigational charts editing funciot nality
- Management of marine standard spatial data such as points, muil-tpoints, curves, surfaces, etc.

- Localization Research and Development of National Marine GIS Core Technologies Based on S-100


S-101 Electronic Navigational Charts

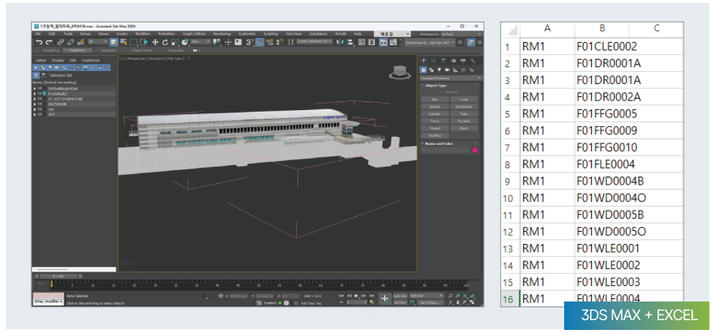

S-102 Seabed


S-127 Marine Transportation

map prime CityGML

- Support for logical structure and attribute information verification of City GML construction achievements
- Support for City GML conversion of buildings and underground facilities models built on 3DS MAX
- Support for converting City GML data into standard data modelss uch as obj, 3ds
- Support for converting city models built with City GML data into 3D service tile sets

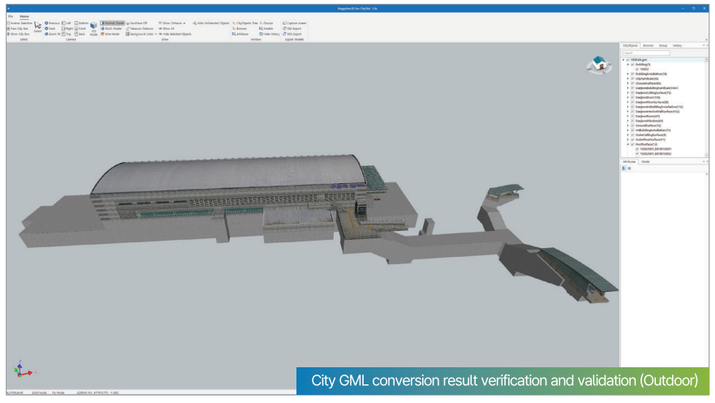
· Construction of 3D Indoor and Outdoor Model Data for Fire Safety City



	A	B
1	RM1	F01CLE0002
2	RM1	F01DR0001A
3	RM1	F01DR0001A
4	RM1	F01DR0002A
5	RM1	F01FFG0005
6	RM1	F01FFG0009
7	RM1	F01FFG0010
8	RM1	F01FLE0004
9	RM1	F01WD0004B
10	RM1	F01WD0004O
11	RM1	F01WD0005B
12	RM1	F01WD0005O
13	RM1	F01WLE0001
14	RM1	F01WLE0002
15	RM1	F01WLE0003
16	RM1	F01WLE0004

3DS MAX + EXCEL

City GML conversion



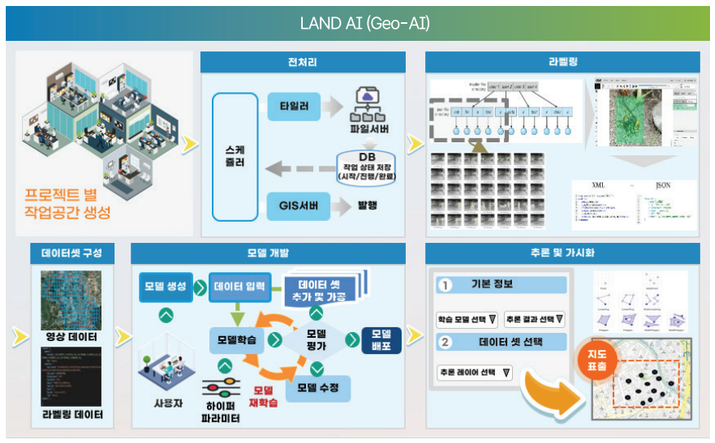
City GML conversion result verification and validation (Outdoor)

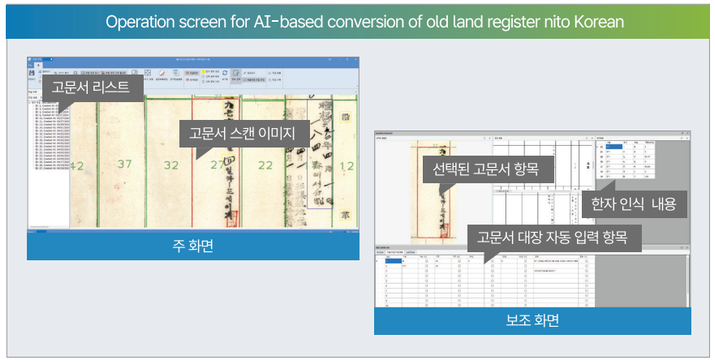
City GML conversion result verification and validation (Indoor)

map prime AI Cloud

- Cloud-based AI OCR and land image detection/conversion support
- Natural language processing support for AI-based Korean conversion of old documents in the land register
- Support for image change detection and extraction of areas ando bjects within a space
- Support for thematic map generation based on detection and inference results
- Continuous performance improvement through automatic retraining
- AI model management feature based on Docke

· Conversion of Old Land Register to Korean Using AI-Based Technology
· Development of Land-XI platform functionalities
· Establishment of administrative services for spatial intelligence information (Geo-AI) integrated image analysis
· MSP (Managed Service Provider)





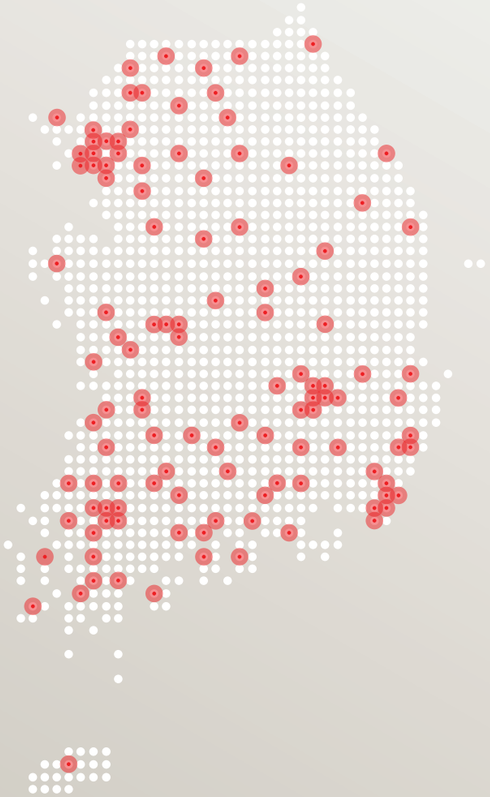
CLIENTS

AllforLand
and customers will work
together toward future dreams.

Government Ministries

Ministry of the Interior and Safety
Ministry of Science and ICT
Ministry of Unification
Ministry of National Defense Republic of Korea
Ministry of Land, Infrastructure and Transport
Ministry of Oceans and Fisheries
Ministry of Agriculture, Food and Rural Affairs
Ministry of Environment
소방청 National Fire Agency
Cultural Heritage Administration
Korea Forest Service
Korea Heritage Service
Rural Development Administration

Local Governments



Public Offices

National Geographic Information Institute
NIA NATIONAL INFORMATION SOCIETY AGENCY
KLID
Korea Financial Intelligence Unit
REB Korea Real Estate Board
LX
LH
Korea Hydrographic and Oceanographic Agency
KIOST
KIMST
KOEM
K water
K-eco
National Institute of Agricultural Sciences
Kofpi 한국임업진흥원 Korea Forestry Promotion Institute
한국산지보전협회
KAIA Korea Agency for Infrastructure Technology Advancement
KICT
National Disaster Management Research Institute
KITECH
FOODPOLIS KOREA NATIONAL FOOD CLUSTER
KHIDI 한국보건산업진흥원
kepco
KOGAS KOREA GAS CORPORATION
DICIA Daejeon Information & Culture Industry Promotion Agency
GRI
KOREA NATIONAL RAILWAY
국군재정관리단
국민건강보험 일산병원
APFS Agricultural Policy Insurance & Finance Service
KEIT Korea Planning & Evaluation Institute of Industrial Technology
FIRA KOREA FISHERIES RESOURCES AGENCY
ETRI Electronics and Telecommunications Research Institute
KIGAM
KARI 항공우주연구원
KHOA Korea Hydrography and Research Association
GYEONGGI HOUSING & URBAN DEVELOPMENT CORPORATION
Seoul Facilities Corporation
KRISO
KAC KOREA AIRPORTS CORPORATION
KOICA
KMI 한국지질자원연구원
KEIT 한국산업기술기획평가원
KCMA 한국건설관리협회
kamco
LOFA LOCAL FINANCE ASSOCIATION
한국지역난방공사 KOREA DISTRICT HEATING CORP.
KOMSA 한국해양교통안전공단

Private Offices

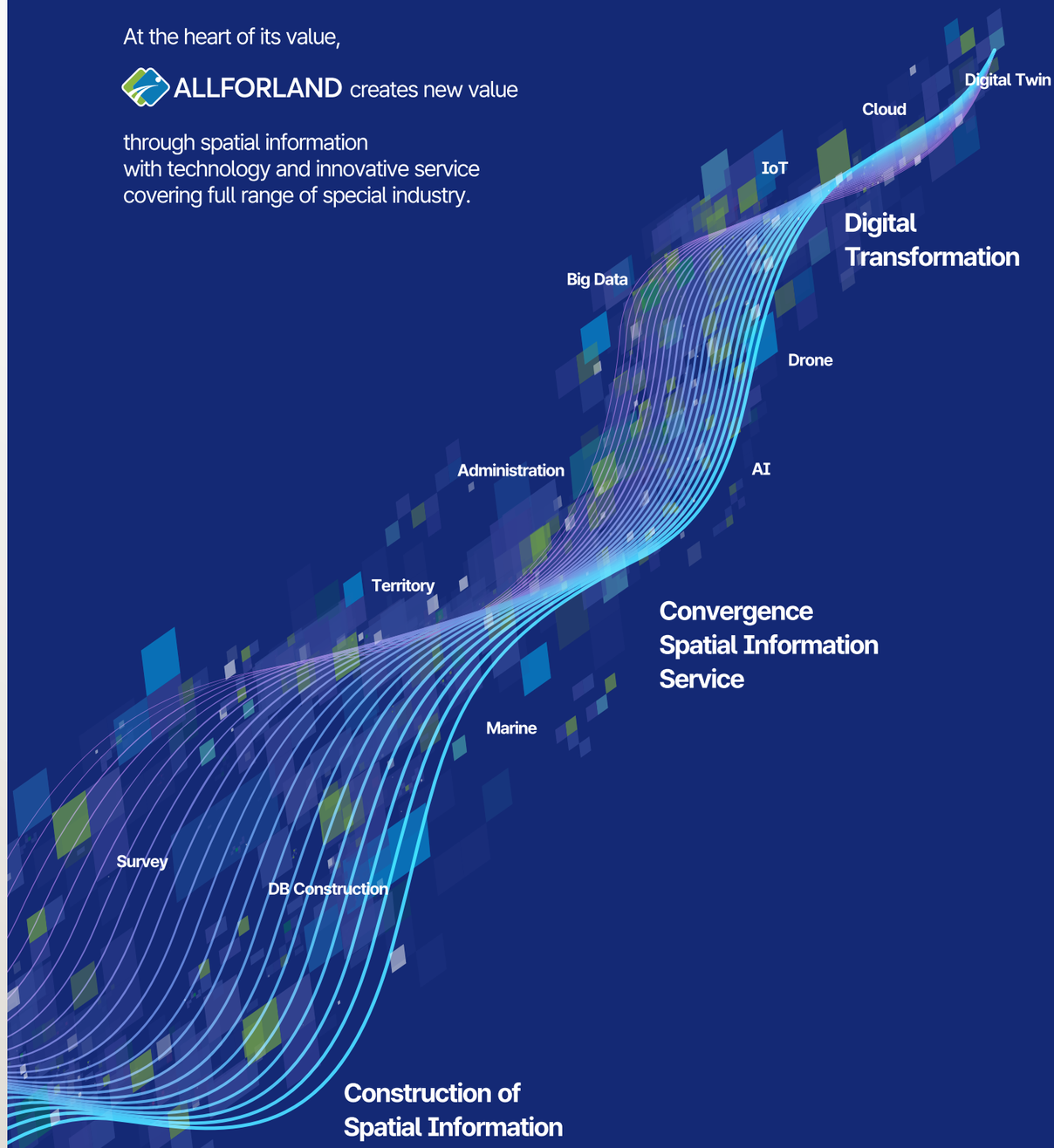
SAMSUNG DISPLAY
Hanwha
TotalEnergies
Hanwha Ocean
Hanwha Vision

Spatial information has infinite value
as a core infrastructure
of the Digital Transformation

At the heart of its value,

ALLFORLAND creates new value

through spatial information
with technology and innovative service
covering full range of special industry.



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