



wavus

www.wavus.co.kr

Integrated solution company for spatial information that opens the smart world

We suggest directions as a pioneer.
We share technologies and experiences as a cooperator.
We create new space as a creator.

- W** Wide Business Scope From public administration to private sectors
- A** Advanced Technique Advanced technology competitiveness based on the company's own solution
- V** Value Creation Creating customer value through the maximization of convenience and effectiveness
- U** Unified Team Work Unified teamwork for one goal
- S** Stable Management Stable business management as a KOSDAQ-listed company

CEO's Greetings

Recently, we have faced the wave of change from our daily lives in the era of digital transformation.

At this point when new technologies and services are created on a daily basis, and imaginations become reality, we are preparing for the future one step ahead.

We have combined new technologies such as metaverse, automatic driving, digital twin and VR/AR to GeOnPaaS, a spatial information platform of WAVUS, to make the world where everyone can use spatial information easily and freely.

We WAVUS promise to become a company that grows with customers as well as all employees, and that makes happiness. We would like to ask for your continuous interest and support.

Thank you.

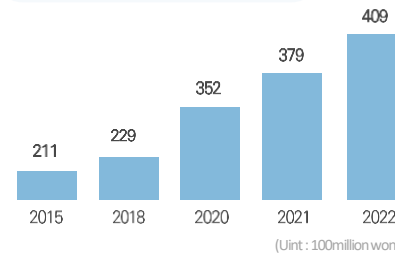
CEO Kim Hak-seong

The only Kosdaq-listed firm among
spatial information specialized companies

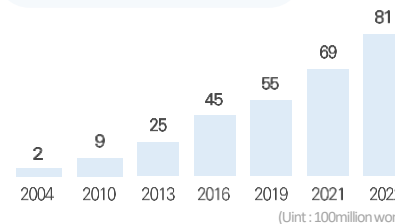
KOSDAQ
KOSDAQ-listed Corporation

A company with a potential of explosive growth in sales
A substantial company that shows a stable profit increase
A company that prepares a bigger step by being listed on KOSDAQ in 2022

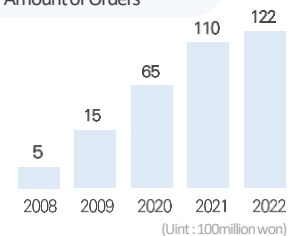
Annual turnover



Spatial Information SM Amount of Orders



Spatial Information Platform Amount of Orders



NATION LAND FIELD



Providing spatial information platform that allows easy utilization of spatial information

LAND / CADASTRAL FIELD



No. 1 company in the development and operation of cadastral map computerization and cadastral computing system

URBAN FIELD



Spatial analysis and decision-making support in urban areas

ADMINISTRATION FIELD



Establishing administrative work system for each field of government

ADDRESS FIELD



Establishment of digital address information to support address-based high-tech industries such as self-driving cars, drones

OVERSEAS FIELD



Establishment of facility management and U-CITY systems in several overseas countries based on GIS, CCTV, and central control solutions

R&D FIELD



Implementing creative technology innovation and challenging inspirational research



UnionMap UnionMap(3D)

Expressing three-dimensional spatial information by synthesizing topography and image data



We-Secuwave

Open type convergence control platform specialized in the security business



We-Framework

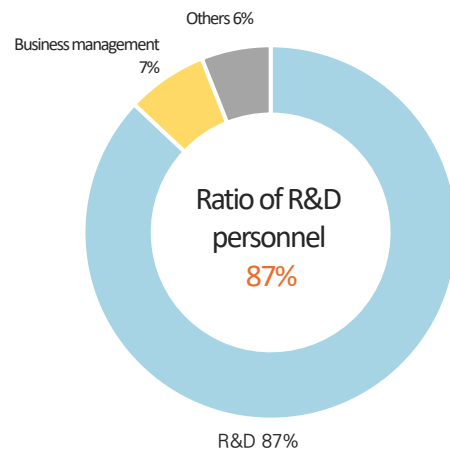
Standard-based spatial information specialization framework



Im-Framework

WorkFlow UI-based information connected specialization framework

Approximately 90% developers among whole human resources



GeOnPaaS (Cloud PaaS-based spatial information - development platform) (site, land)

Having the highest quality spatial information industry professional personnel Technical experts of higher than advanced level - 43%



Having the highest quality spatial information industry professional personnel

PLATFORM FIELD

Living in the platform era. spatial information, a key technology of the 4th industrial revolution era!
Providing spatial information platform that allows easy utilization of spatial information



We establish space platform for anyone easily and conveniently to use spatial information that is essential in the fourth industrial revolution, along with platform-based spatial information services for public and private sectors.

Establishing spatial information platform

Ministry of Land, Infrastructure, and Transport

- Establishing and operating National Spatial Information Integrated Platform (K-Geo Platform)

LX Land and Geospatial Informatix Corporation

- LX Land Information Platform

Establishing spatial information platform for central government departments/local government

Ministry of Land, Infrastructure, and Transport

- Establishing Digital Twin Land Platform
- Establishing Public Housing Location Analysis System

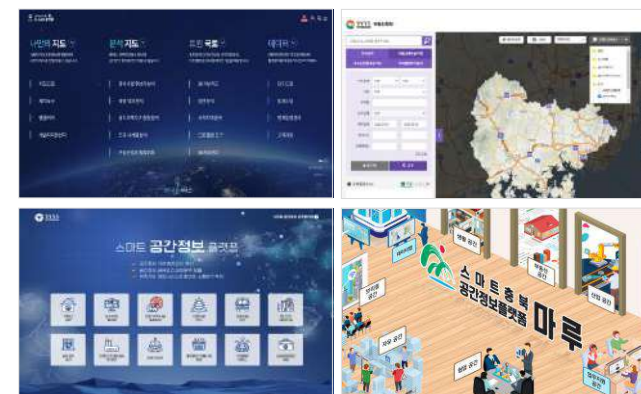
Local government

- Establishing Smart Chungbuk spatial information Platform(Maru)
- Establishing Gyeongnam spatial information Platform
- Establishing Sejong Spatial Information Integrated Platform

We have established cloud-based spatial information platform that allows all services such as collection, process, supply and utilization of spatial information.



We provide administrative affairs process and policy, decision-making support services to central government departments and local governments based on the spatial information platform.



NATION LAND FIELD

Enhancing the value of national land and providing national land administration innovation services with the spatial information technology

WAVUS is providing services for innovation of administrative affairs to public institutions and stable real estate civil services to private sectors by establishing the national land administrative support system based on the highest quality spatial information technology.



National land information

Ministry of Land, Infrastructure, and Transport

- Establishing Korea Land Information System
- Establishing Land Information System

Korea Asset Management Corporation

- Establishing National/Public Maintenance System

LH

- Establishing standard program for Land Suitability Assessment



National Land Information Application

Ministry of Land, Infrastructure, and Transport

- Establishing Spatial Information Dream Service
- Establishing public housing location analysis system

LH

- Establishing local development integrated monitoring

LX

- Establishing national land information management application system

We provide over 4.5 billion cases of information to public and private sectors that manage Korean land information and that need land information.



We establish and consigned-operate systems of central government's divisions and public institutions to support real estate policy and national land development decision-making by using national land information.



NATION LAND FIELD



Managing facilities

We provide services for real-time managing and monitoring major facilities of the country such as water supply, sewage and road, along with communication, port and industrial facilities based on spatial information.



Public

- Establishing Yeosu National Industrial Complex Geographic Information System
- Establishing the port's underground facility geographic information system

Private

- Establishing National/Public Maintenance System

LH

- Establishing standard program for Land Suitability Assessment



Geographic information service

We provide and operate business support services for national and public institutions based on geographic information technology.



Public

- Establishing mine geographic information system
- Managing system of Inundation Trace Map

Private

- KTF WCDMA
- Establishing KT Net-Probe
- Establishing KT track integration operation system(OSPIA)
- Establishing KT WiBro LBS platform(LBS), subcontracting



Housing service

We have supported decision-making on housing policy and established apartment housing management and housing welfare fund management services based on spatial information.



LH

- Establishing real estate bank information system
- Establishing apartment housing maintenance information system
- Establishing housing benefit information system



Statistical information service

We provide statistical information by visualizing after combining with spatial information and operate national housing statistics service.



National Statistical Office

- Establishing SGIS smart platform

LH

- Housing supply statistics information management system

CADASTRAL FIELD

'WAVUS', a companion that took part from the computerization of Korea's paper cadastral map to the completion of digital register



We began the innovation of cadastral work through the computerization of paper land register. In the whole cadastral information process from the reinvestigation of cadastre to digital land register, **WAVUS** worked together with Korean government.



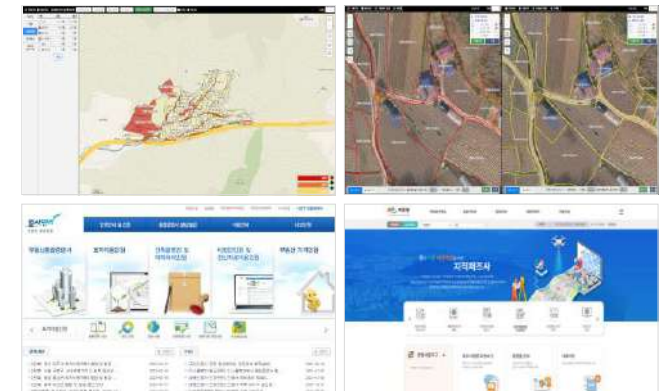
Cadastral administration

Ministry of the Interior and Safety

- Establishing and operating land-based land information system

Ministry of Land, Infrastructure, and Transport

- Establishing and operating Korea Land Information System
- Korea Real estate Administration intelligence System
- Establishing and operating reinvestigation of land register(Bareuntang) system



cadastral survey

We have established the work system of all process of cadastral survey from registration of measurement to field measurement, lot arrangement and writing performances. We currently operate the system by being consigned by LX.

LX Land and Geospatial Informatix Corporation

- Immediate Cadastral work Processing Center
- Establishing cadastral survey work system(LandyGo)
- Establishing Seamless cadastral map system
- Establishing and operating Korea Real Estate Administration Information System



URBAN FIELD

Realizing smart local government's special administration with the support of urban areas' spatial analysis and decision-making process

Local administration of local government becomes smarter through the support of spatial information analysis and decision-making process. Reasonable and effective spatial administration improves administrative expediency and living quality of residents.



Spatial information administration service for local government

Seoul

- Seoul type big data sharing application platform

Busan

- Advancement of urban spatial information system

Incheon

- Integration maintenance management of Incheon's spatial information application system

Gyeonggido

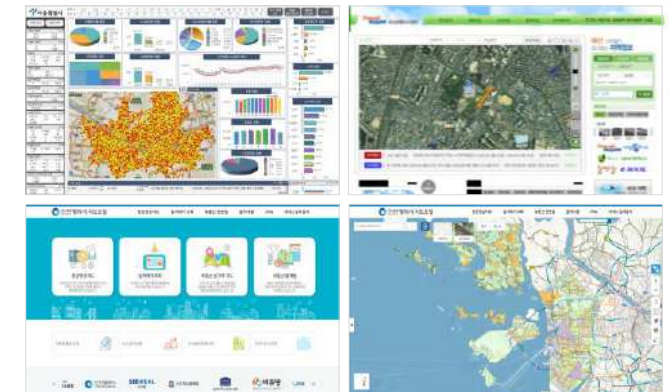
- Gyeonggido Real Estate Portal System



Smart city & Digital twin

- Ministry of Land, Infrastructure, and Transport
- National Spatial Information Integration Platform(K-Geo Platform)
- Daejeon
- Developing Tangible Fire Fighting Safety Training contents
- Korea Institute of Civil Engineering and Building Technology
- Spatial information-based intelligence type crime prevention service
- Korea Agency for

Establishing administrative system of spatial information based sharing, opening, collaboration data suitable for characteristics and administrative demands of each region



Establishing smart city and digital twin with the application of smart city platform base by converging various city situations such as traffic, environment, public order & security, and disaster into IoT technology.



ADMINISTRATION FIELD

Establishing administrative work system for each field of government

We provide policy decision-making support through the establishment of administrative system for the improvement of central government and public institutions' administrative work, along with the spatial big data analysis.



Establishing central government's administrative work system

- Establishing administrative system of national tax
- Establishing next-generation budget and accounting system
- National property system ('11~'13)
- e-Nara System('13)
- dBrain(national property)('20)



Field work support service by providing delinquent taxpayer information through spatial analysis needed for national tax system

Establishing whole work system from national property acquisition to budget settlement in the national budget and accounting system



Establishing and operating public institutions' work system

- Establishing LX Empty House Information System
- LH Housing Benefit System
- Establishing and operating system('15~'20)
- Establishing LH rental housing information system
- Public Procurement Service e-Ordering System



ADDRESS FIELD

Establishing digital address information(spatial information) that supports address-based cutting edge industry such as autonomous vehicle, drone and droid

Address information-based D.N.A. ecology



Aiming to contribute to citizens' direction finding convenience, public safety promotion and industrial development through the establishment and application revitalization of high quality address information with recency and accuracy guaranteed

Establishing digital address information

LX Land and Geospatial Informatix Corporation

- Informatix Corporation
- Service of the establishment of three-dimensional address and indoor moving path(2022)
- Service of the support of address information base map quality management (2022)
- Service of the support of road name address base map quality management(2019~2021)
- Service of the support of actualizing road name address system(2014~2018)
- Namdong-gu, Incheon
- Demonstration project of the advancement of detailed address granting management system

Address information guidance service

- Service of making road name address district information map

Improving public trust of address administration through the establishment of digital address information and supporting customized address information distribution needed for address-based industry demand



Establishing LX address information guidance service to activate the utilization of address information and to promote convenience



OVERSEAS FIELD

Establishing facility management and U-CITY related system in many foreign countries based on GIS solution, CCTV and central control solution



Establishing facility management and U-CITY related system in many foreign countries based on GIS solution, CCTV and central control solution

Bangladesh

- Establishing electric supply equipment system

Establishing DB of electric supply equipment, developing GIS-based electric supply equipment management system, and planning the advancement of electric supply network in Bangladesh



Kazakhstan

- Establishing electric supply management system

Demonstration project of GS based electric supply management system in Kazakhstan



Other Central Asian Countries

- Safe city infrastructure and integrated control center
- Airport security system and integrated control center
- Road security system
- High speed and illegal parking regulation system
- Comprehensive sports facility infrastructure and integrated control center
- Smart city and integrated control center

Establishing integrated control center for setting and monitoring various crime/disaster prevention systems for citizen safety



R&D FIELD

Implementing creative technology innovation and challenging inspirational research

Safety

Environment

Traffic

Security

We try to develop our own independent technologies and to spread the latest technology through creative technology innovation and inspirational research implementation, and strengthen our competitiveness constantly.



Nation's R&D

Ministry of Land, Infrastructure, and Transport

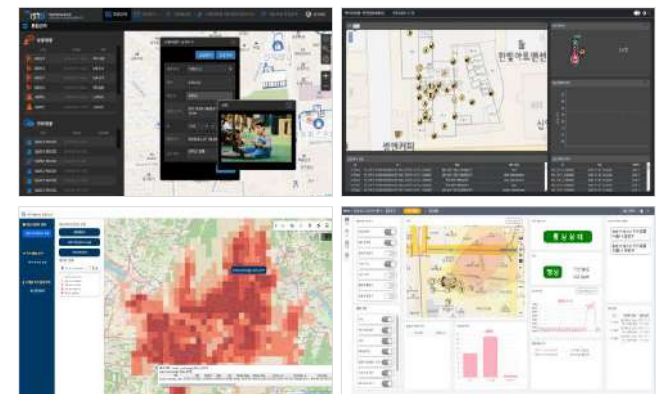
- R&D for providing customized tangible disaster-management contents based on spatial information

National Disaster Management Research Institute

- Developing spatial information applied technology to manage disaster data
- Developing communications network-based disaster management platform foundation technology

Ministry of the Interior and Safety

- Developing spatial information-based intelligence security technology for safety of citizens



Solution R&D

We have developed spatial information-specialized platform and information connected solution to research and apply various spatial information fields.

WeFramework [GS certified]

- Electronic government framework based expanded framework

ImFramework [GS certified]

- Expanded information collection framework



GeOnPaaS

Spatial information development platform that supports to deal with spatial information and to produce map services easily

We **WAVUS** have established spatial information development platform to reduce the time and effort for new system building. This solution provides the GIS functions and modules based on the know-hows and technologies accumulated through the last 20 years.



Providing 3D map service for digital twin service

National Government

- K-Geo Platform
- Location analysis system

Local governments

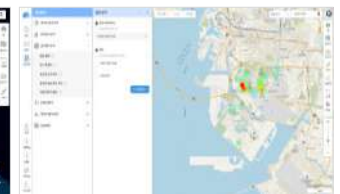
- Gyeongsangnam-do Spatial Information Platform
- Chungcheongbuk-do Smart Spatial Information Platform
- Sejong Spatial Information Integrated Platform

Public institutions

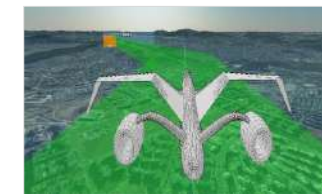
- Nonghyup(NH) Next-generation Economic Distribution System
- LX National Land Information Platform



Modularization of various map functions & providing API



Providing various spatial analysis functions



Drone flying route simulation



Visualizing and analyzing indoor spatial information



GS(Good Software) Grade 1 Certification



- Certification agency: Telecommunications Technology Association(TTA)
- Date of certification: August 1, 2022



OGC Standards Certification



- Certification agency: OGC (Open Geospatial Consortium)
- Date of certification: July 19, 2022



MAP PICK

- An online subscription product of our company's solution GeOnPaaS
- Map-based data management & online map collaboration tool

Map-based data management service

Providing national spatial information for free + making customized service

Providing public data

Comprehensive supply and update of key public data(map)

Online map collaboration tool

Searching and sharing map collaboration based on authority level

Making each institution's customized site

Visualizing institution's data
Institution's original design and security

Proxy of data establishing/renewing

Cost-reduction with flexible expansion/reduction by use frequency

Groupware of map work for institution

Smart map collaboration tool

Comprehension of current situation

Asset management

Field support

Spatial analysis



"Wise Map Pick Life" Operating customized map service based on each institution's spatial information expertise and competency & subscription

	Basic	Standard	Premium
National spatial information subscription	HOT20	Using API	Connection request
Institution data management	Uploading/Actualizing	Establishment request	Establishment request
Customized operation		Web builder + Independent development	Request matters analysis/designing/actualizing
Add-on		Field support mobile dashboard	3D



Relation with GeOnPaaS & roadmap

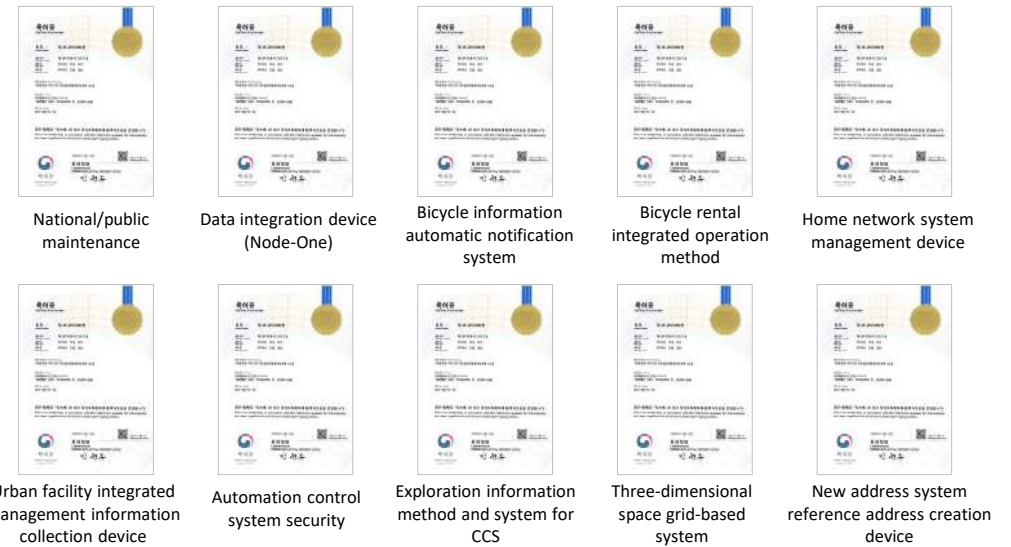
	Stage 1	Stage 2	Stage 3
	General user's map making experience	Institution's spatial information contents management	Matching map/spatial analysis requests

GeOnPaaS (PaaS)	Product	Corporation	
	Profit	On-Premise	Contents manufacturing support
	Product	Solution adoption customized service(SI) maintenance (SM) *Data subscription	Contents manufacturing/adding app purchase *Data subscription

GeOnPaaS Online (SaaS → platform)	User	Private corporation	Private corporation	Customers to Customers
	Product	GeOnPaaS support service	Subscription type platform GeOnPaaS web version GeOnPaaS premium	Map making analysis proxy data establishment, or request matching
	Profit	Free trial(2 months)	Customized service/subscription/additional app purchase	Project based separate appropriating & commission

INTELLECTUAL PROPERTY RIGHT

10 Patents



7 Trademarks



INTELLECTUAL PROPERTY RIGHT



GS, Quality certification -7



WE-MAP X-V v1.0



UnionMap v1.0



WeFramework 1.0



ImFramework v1.0



GeOnPaaS v1.0



Quality Management
System ISO 9001 :
2015



Software e-Process
Quality Certification
Grade 2



Others -6



Certification of
International
Contractor



Certification of
Inno-Biz small-
medium sized
corporation



Corporation
credit evaluation
grade certification



Company-
affiliated
research center
certification



Virtual reality
business
registration



Certification
of venture
corporation

MAJOR CLIENTS

We will return with the improvement of customer value based on the highest-quality technologies as a leading company in the spatial information industry.



We prioritize promises with customers.

The best partner company for actualizing spatial information

The Best Partner for You in "Spatial Data World"



We open a new world through spatial information.



We make happy tomorrow for both customers and employees.

