

Smart Agriculture AI Platform

GEEIN

Company introduction letter



GEEIN who makes agricultural AlphaGo through big data

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Chapter 1. The realities and problems of agriculture in Korea

- (1) The reality of Korean agriculture
- (2) Problems in Korean agriculture
- (3) Advanced agricultural cases in the world
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Facility horticulture



Plant factory

01 Facilities Horticultural facilities can be remotely controlled
Tomatoes, paprika, strawberries, etc. used for actual cultivation

02 Market of fresh vegetables grown in a vertical plant factory
Promotion of Functional Plant Cultivation Research

03 Development of Smart Farm Technology and Facility Equipment Led by the Government
As of 2018, 4,900ha of facility horticulture and 1,425 livestock farms were distributed

* Source: Korea Institute of Science and Technology Planning and Evaluation

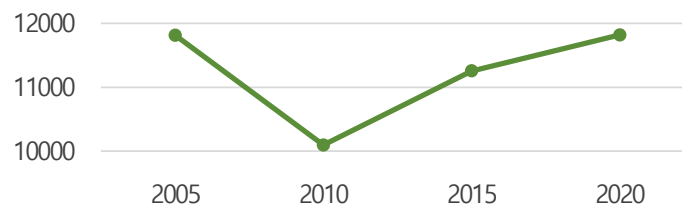
**Smart agriculture,
it's no longer about distant countries.**



About open-air
agriculture
a contraction in
investment

Stagnation in agricultural income

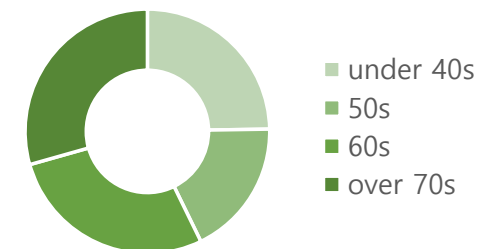
Changes in agricultural income (1,000 won)



Average farm household agricultural income increased by only 5,000 won over 15 years

The deepening aging of rural areas

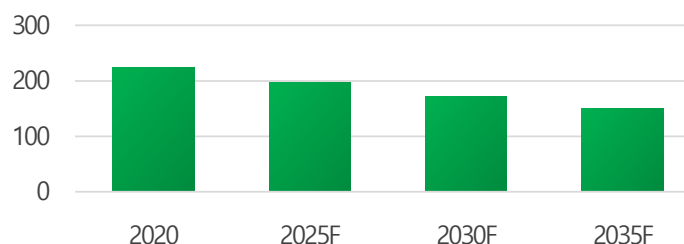
Rural age distribution (%)



In 2020, 42.5% of the elderly population aged 65 or older in rural areas

A decrease in farm population

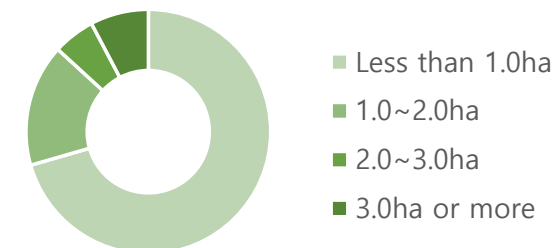
the expected trend of the agricultural population(10,000 people)



Total number of farmers in 2020 2.245 million
→ 150.4 million in 2035 (estimated)

The majority of small farmers

Agricultural Land Area Ratio



70% of small farmers with a cultivated area of less than 1ha

*Source: National Statistical Office

So domestic agricultural productivity has been stagnant for years.



Accounting for 70 percent of the farmers

Most of the small farmers are cultivation by open-field cultivation



Initial investment and maintenance costs
Expensive smart farm

Instead of small farmers, let's focus on large farmers a widespread situation



Without difficulty for farmers accessible

**Comprehensive agriculture
Database absence**



Reflecting the reality of domestic agriculture

**Building big data on open-field
Lack of integration of agricultural data**



Compared to the field of facility horticulture

**Smart agriculture in the field
Investment is relatively insufficient**

For ordinary farmers, smart agriculture is a far-off country.

Problems in Korean agriculture

Insufficient information on new species cultivation

A farmer, a second-generation farmer, with the rise of young entrepreneurs due to lack of experience in cultivating new varieties a farming failure in farming



Reliance on customary farming methods

A dependence on oral practices
Lack of a systematic agricultural management system
Ignorance of agricultural product-related systems such as GAP*/PLS*



Increased pest damage

Climate Change Increases Pests
introduction of foreign pests
a decrease in agricultural production due to pests



A direct-to-consumer channel Lack of utilization capability

Lack of manpower in the agricultural product sales process
Difficulty managing direct channels
Collectively sold to local agricultural cooperatives or public markets



Productivity • Profitability deterioration

- GAP(Good Agricultural Practices)
: Excellent Agricultural Management System, Low Pesticide Excellent Agricultural Products
a system that certifies systematic management and stability of
- PLS(Positive List System)
: Pesticide Permissible Substances List Management System

They don't have a realistic smart agricultural solution.

Advanced agricultural cases in the world

The United States

- Big tech companies such as MS and GOOGLE expand their investment in smart agriculture
- Realization of self-driving agriculture of agricultural machinery using big data collected from the past
- Currently, about 60% of all U.S. farmers utilize one or two agricultural data services

Monsanto's Climit Field View

Monsanto's Climit Field View

- "Climate Field View" by Monsanto in the U.S
- : It acquired Climate Corporation, a big data company (2013), and operated a Climate Field View service that supports farming decisions through weather and crop data analysis



Europe

- Utilization of Big Data and Facilities Equipment for the Production of High-Quality Agricultural Products
- Netherlands: Production per area and water use efficiency are very good
- Germany: Revitalizing the industry of smart agricultural equipment, facilities, and data management solutions

Xarvio's Scouting Xarvio App

Germany's 'Xarvio Scouting App'

- Germany's 'Xarvio Scouting App' to Determine Diseases and Pests
- : Photo data-based weed, disease identification features

* Source: Korea Institute of Science and Technology Planning and Evaluation

Agricultural advanced countries have already actively entered open-air smart agriculture. Smart agriculture is a challenge of the times and a destination to reach.

Domestic affiliates

Annual sales (KRW 1,000)



Farm8

- It is a plant factory company that grows and sells various vegetables such as salad vegetables, paprika, and special vegetables
- Department stores and mart restaurant franchises

59,627,604



Green+

- A company that started as a greenhouse company in 1997
- Currently, it operates a business in general smart agriculture and is listed on KOSDAQ in 2019

83,237,751



Green Labs

- Comprehensive data for smart farm facilities and crop production, distribution, and market development. The solution is "Farm Morning"
- Service operation (currently 450,000 member farmers)

96,672,095



Tridge

- Operation of the world's only agricultural, livestock and fisheries trade platform. Korea's first 'Unicorn' in the agri-food sector
- Intelligence and Data Services Operations

103,854,670

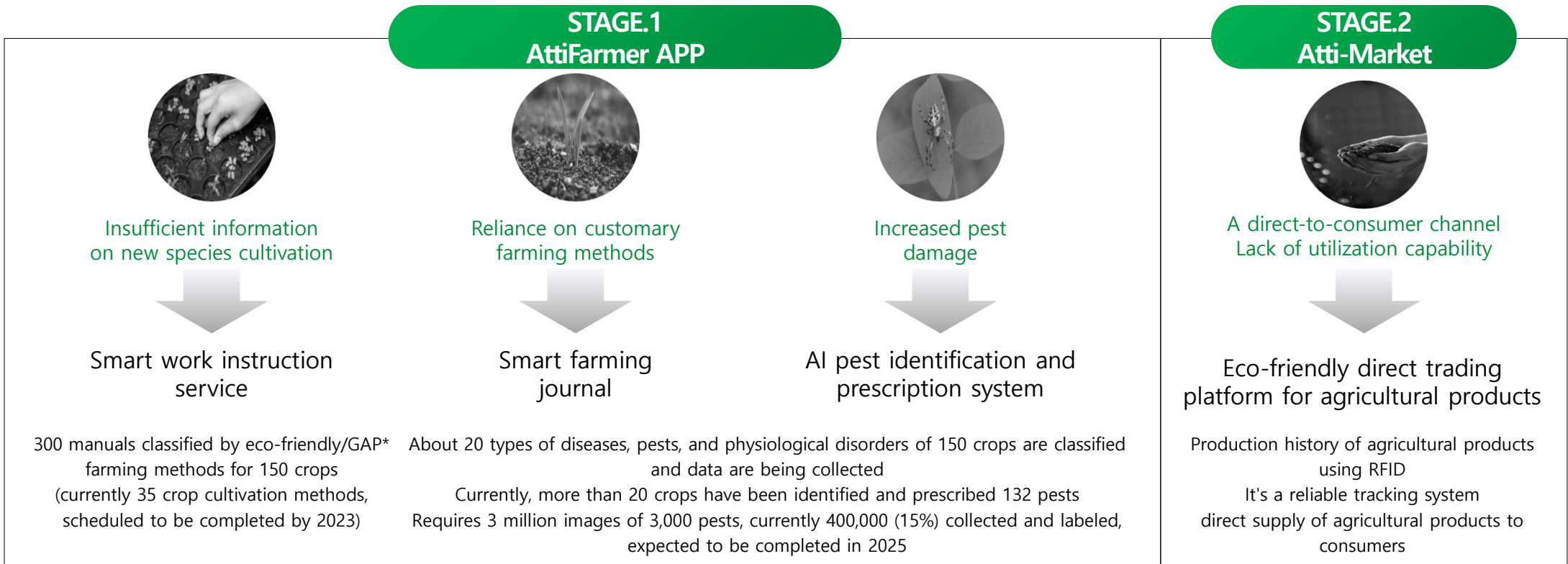
Existing domestic smart agricultural companies are limited to facility agriculture, that is, smart farms.



Chapter 2. GEEIN's business details

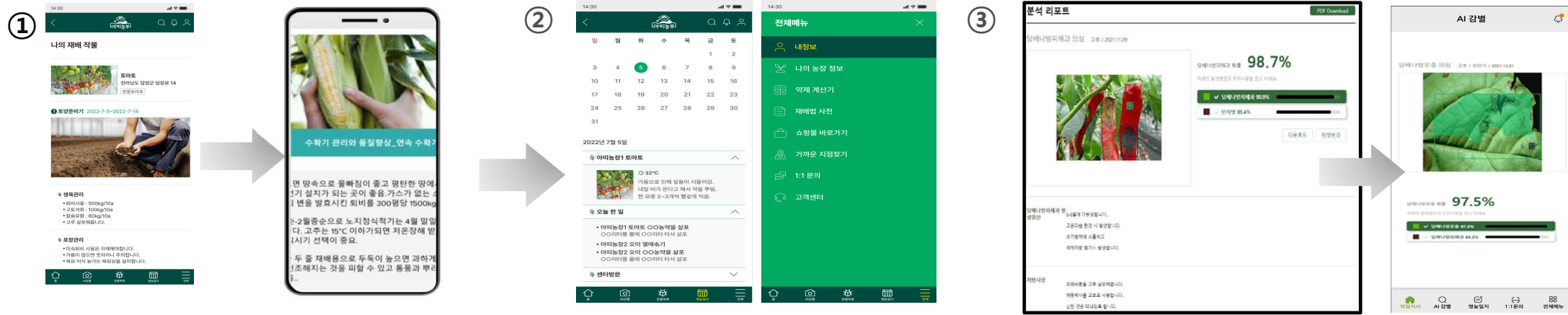
- (1) AttiFarmer lead new change
- (2) The future of GEEIN, Open-field smart agricultural platform
 - ① Smart Work Instruction Service
 - ② Smart Farming Journal
 - ③ AI system for Identifying and prescribing pests

The smart agriculture AI platform 'AttiFarmer' is
 The convergence of agriculture and IT leads to new changes in agriculture.



GEEIN has this data platform.

02 Solution suggested by an acquaintance The future of GEEIN, a smart agricultural platform in the open-field



Smart work instruction service

- Interworking with big data such as cultivated crops, climate, soil, etc.
- Provide customized work instruction solutions to individuals
- Recommended fertilizers, pesticides, and drugs suitable for each crop/period
- Strong winds, rainfall, snowfall, etc. in conjunction with the forecast of the Korea Meteorological Administration
- Pre-treatment work instructions according to prior forecast

Smart farming journal

- Function to automatically create a farming journal reflecting work content
- Categorized and stored by working date, weather, temperature, etc.
- Automatic calculation of drug usage,
- Peripheral point finding function, cultivation dictionary, etc.

AI system for Identifying and prescribing pests

| Determine the type of crop pest in a single photo |

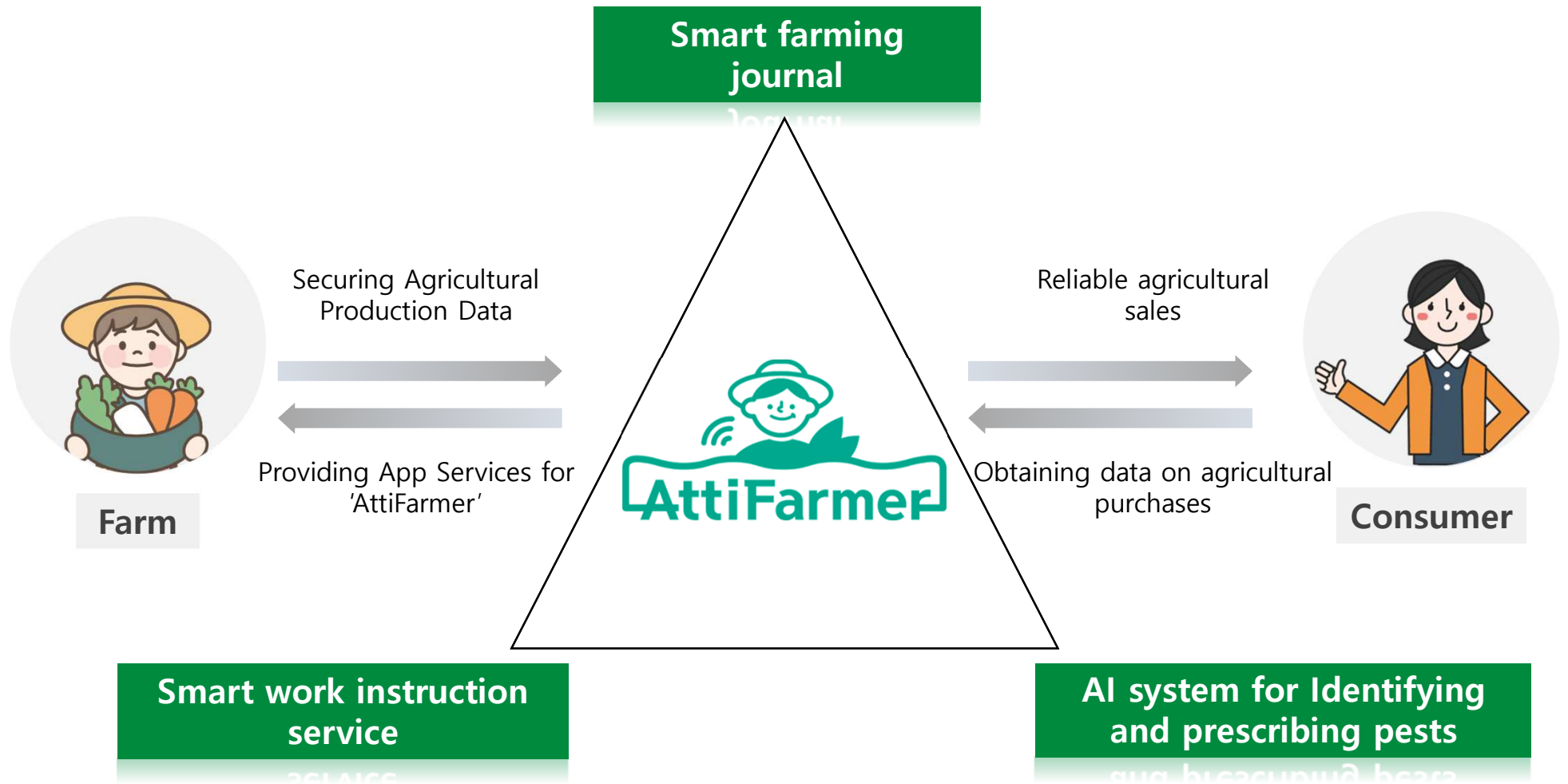
- Identifying information on crop diseases, pests, and physiological disorders with just one picture, prescribing drugs
- User-aware discrimination results in report format
- Currently, WEB service is being established and is preparing to link with 'AttiFarmer' APP

Save input information to admin DB

- Store customer information classification to provide customized information by region and cultivated crops

Expectation effectiveness

- Existing telephone counseling, AI automates visual inspection methods
- Reduce costs and time to identify pests
- Minimize pest damage and increase agricultural productivity
- Increased sales of pesticides and eco-friendly drugs



AttiFarmer' AI grows on its own.

Data production through user's use of APP



- Smart farming journal
- AI system for Identifying and prescribing pests



Operated by our company data collection system

- Crop pest big data
- Crop eco-Friendly/GAP farming manual data
- Climate and geological information collection System
- Crop growth environment data collection and monitoring system
- Annual crop production and demand forecast data

Data accumulation
AI learning

The analyzed data Deliver to Customer



- Crop cultivation smart work instruction service
- Eco-friendly direct trading platform for agricultural Products
 - User-friendly apps & web interfaces



Produced, collected Analyze and reprocess data

Building a Self-Growing Learning Algorithm 'AttiFarmer'



Chapter 3. Growth potential

- (1) GEEIN's target market outlook
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- (6) Patent Portfolio & Thesis & Award-winning, etc.

TAM Total Available Market**49 trillion KRW**

(The entire domestic agricultural market)

SAM Serviceable Available Market**3.6 trillion KRW**

(Domestic eco-friendly agricultural products + pesticides + eco-friendly drugs)

SOM Serviceable Obtainable Market**1.5 trillion KRW**

(Eco-friendly agricultural products in Jeollanamdo and Gyeongsangbukdo + Pesticides + Environmentally friendly drugs)

TAM

- The total domestic agricultural market size in 2020 is about 49 trillion
- Leading agricultural product distribution such as Nonghyup, Market Kurly, Coupang, SSG Dotcom, etc.
- Growth of KRW 60 trillion by 2025 (estimated)

SAM

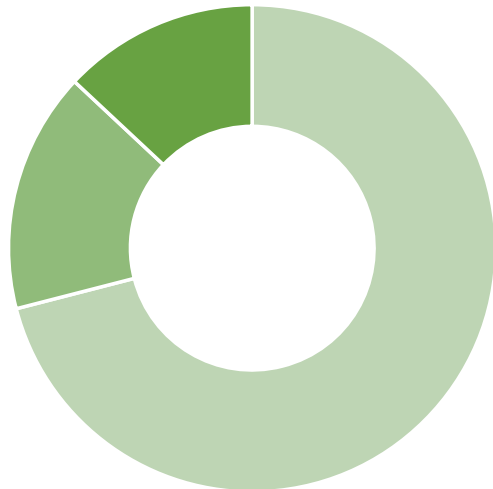
- About 1.9 trillion won in the domestic eco-friendly agricultural product (no pesticides, organic crops) market in 2020 (Korea Rural Economic Research Institute)
- Total sales of major pesticide companies in Korea KRW 1.4365 trillion in 2020
- About 300 billion won in the eco-friendly drug market in 2020
- Environment-friendly agricultural products and agricultural pesticides market total KRW 3.6365 trillion
- By 2025, the eco-friendly agricultural market will grow to about KRW 2.6286 trillion (estimated)

SOM (Mayor of South Jeolla Province and North Gyeongsang Province)

- 57% of Jeollanamdo's certified eco-friendly agricultural products
- Jeollanamdo's eco-friendly drug market is about 600 billion won, the largest in Korea
- 59,946 tons of eco-friendly agricultural products shipped in Gyeongsangbukdo, ranking third in the country
- Jeollanamdo, Gyeongsangbukdo Market Size Estimate KRW 1.5 Trillion
- The number of agricultural populations in Jeollanamdo is 16.8% (290,000 people) compared to the country
- Cooperation with Gyeongbuk Agricultural Research & Extension Services, Daegu Gyeongbuk GAP Association, Jeonnam Agricultural Research & Extension Services, etc

Securing 2.7% of all farms in SOM (8,000 farms)

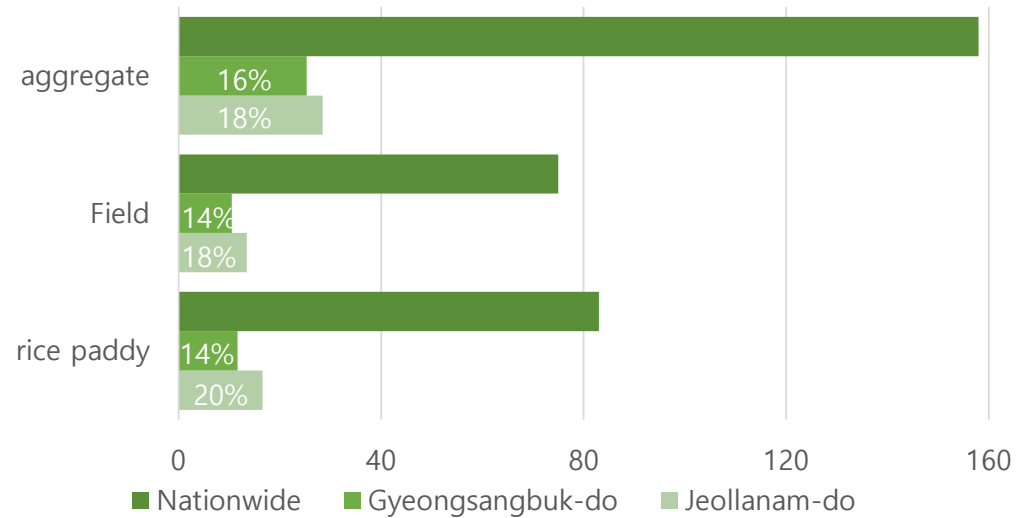
Percentage of agricultural population in Jeollanam-do and Gyeongsangbuk-do



- North Gyeongsang Province
- Agricultural Population
- South Jeolla Province
- Agricultural Population

Out of the total agricultural population of 1 million farmers (2.24 million) in Korea **300,000 farmers (660,000 people) in Jeollanam-do and Gyeongsangbuk-do**

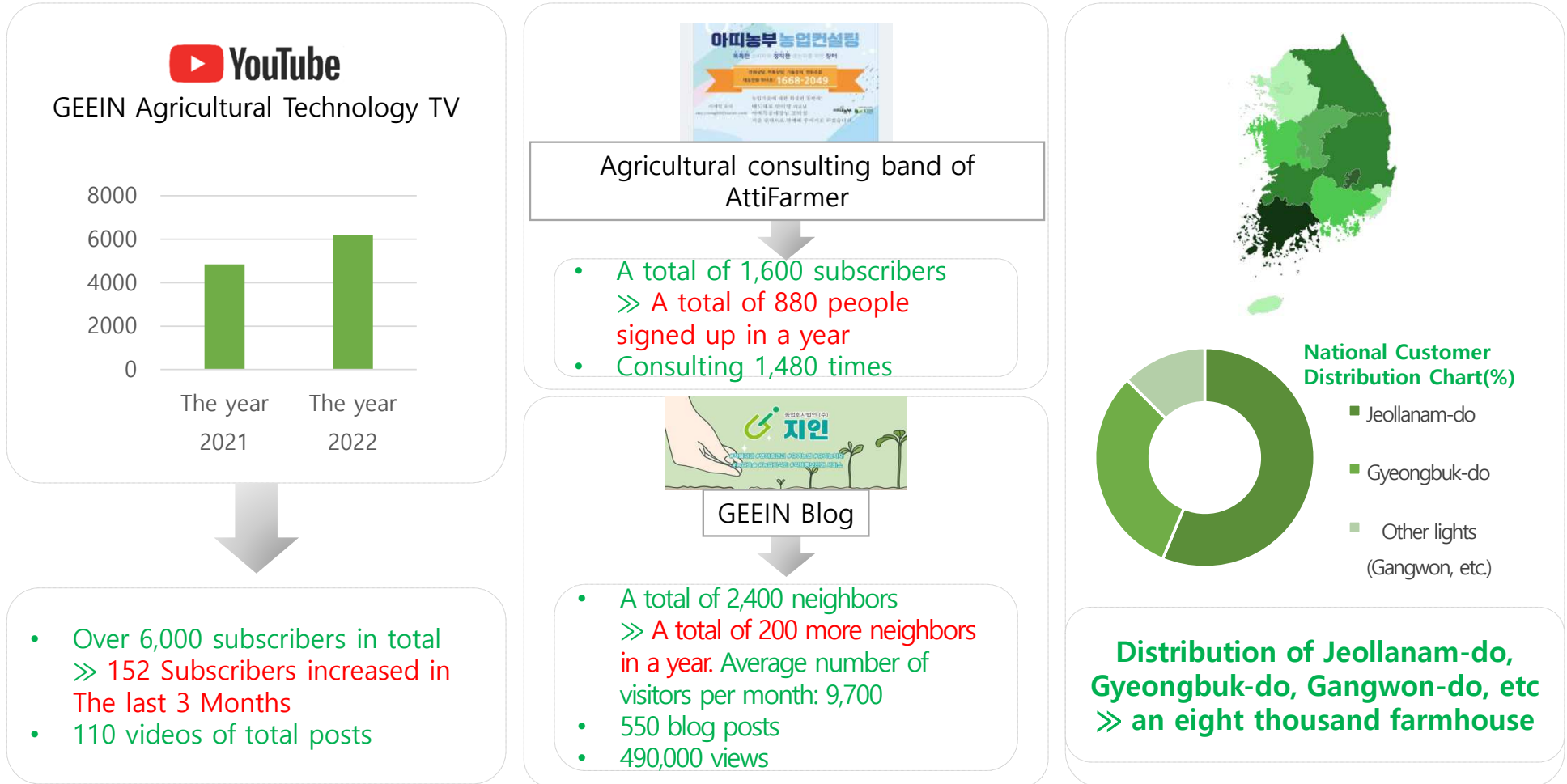
Farmland size in Jeollanam-do & Gyeongsangbuk-do (ha)

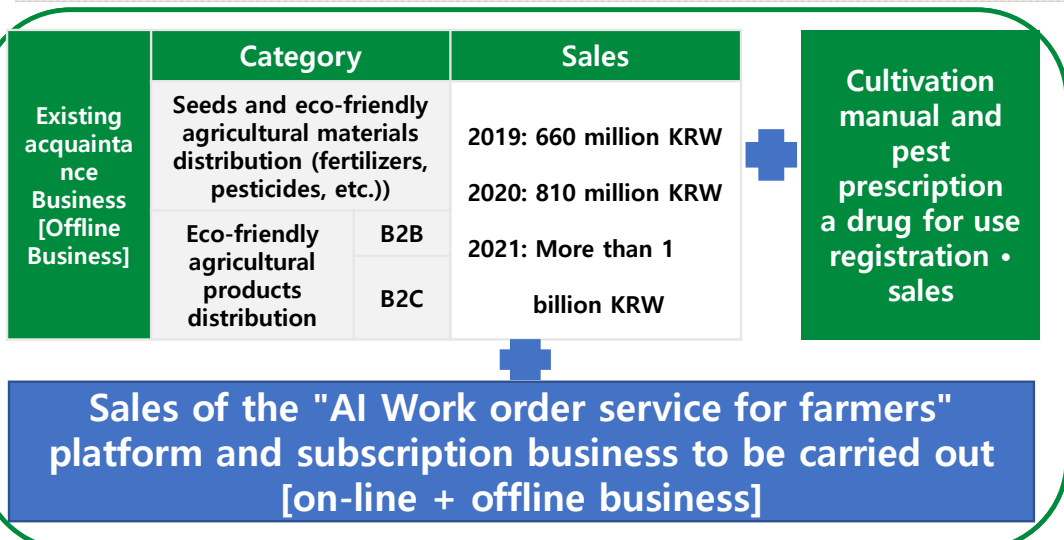


About 30% of the total farmland area in Korea, Jeollanam-do and Gyeongsangbuk-do

Jeollanam-do, Gyeongsangbuk-do as the base market to secure location

Promotion and activation using SNS, blogs, and YouTube





B2G Market

Local government contracts for urban and rural complex cities, Future public procurement service Venture-nara, Nara-Market service registration and supply promotion

- Customized services (climate by region, soil, major cultivated crops, etc.) by local body
- The urban and rural local governments will supply app licenses by purchasing them collectively and distributing them free of charge to local open-air farmers (a method of supporting the construction of agricultural DB and customized app development in the region)
- As of January 23, it is in consultation with five local governments, including Naju-si, Hoengseong-gun, Dangjin-si, Gyeongsan-si, and Pohang-si

B2B / B2C Market

Company-owned media, newspaper advertisements, Online/off-line promotion through related exhibitions, etc.

Category	Subscriber	Number of posts	Total number of views	content	Etc.
GEEIN Agricultural Technology TV(Youtube)	6,590	109	656,454	agricultural technology Provision of Information	As of 23.01
GEEIN Blog	2,457	1,037	278,738		
Agricultural Consulting Band of Atti Farmer	1,672	1,480	-		

*Time to enter the market

Category	End of 2023	First half of 2024	Second half of 2024
Step-by-step strategy	Prototype development completed and Alpha Test	Beta test and supplementation	Commercialization and Start the service

New target market	Domestic open-air agricultural workers, enterprises, and urban and rural complex local governments	
by type Target Customer	B2G	Urban-rural complex city and county-level municipalities
	B2B	Agricultural corporations operating open-air agriculture, farming corporations, Regional Agricultural Cooperatives, etc
	B2C	Farmers, returnees, second-generation farmers, and farmers who return to farming, Young Entrepreneurs, etc
Marketing strategy	Establishment of a collaborative network for the spread of smart agriculture in open land	
	<ul style="list-style-type: none"> • The company is the Rural Development Administration. Through joint development and interaction with agricultural-related public institutions such as Jeollanam-do Agricultural Research and Extension Services, agricultural materials manufacturers, agricultural processing companies, smart farm hardware manufacturers, Chonnam National University, Suncheon University, etc. • Organizations that sign MOUs: Jeonnam Agricultural Research and Extension Services, Daegu-Gyeongbuk GAP Association, Suncheon University, etc. 	

| ① Atti Farmer APP service |

	Customer		Budget size	Application plan	
				2023	2024
Development of customized work instruction apps by region	82 counties in 77 cities (160 urban and rural areas)	Develop a customized app for each city and county with a budget of 300 million KRW	50 billion KRW	five local governments 1.5 billion KRW	20 local governments six billion KRW
Support for app development costs (local government budget)					
In the program to support returning to farming and App subscription fee support	490,330 people/year in your hometown Farming program (as of 2018) 11,961 people/year		a farming program a budget of 230 billion KRW	Increase to 60,000 farms, including existing farms	Securing 120,000 farm customers, including existing farms
(Local government support) App subscription fees are provided to farmers					

| ② Distribution of seeds and eco-friendly materials |

Application of KRW100,000 per year per member farm

	The year 2023	The year 2024
	15,000 farmers x 100,000 KRW x 12 months 45,000 farmers x 100,000 KRW x 6 months	60,000 farmers x 100,000 KRW x 12 months 60,000 farmers x 100,000 KRW x 6 months

* Sales in progress of APP development

(Only the subscription fee and sales of agricultural materials are calculated for the new member farm in question)

| ③ Distribution of agricultural products |

- Major crops produced by farmers in Jeollanam-do : onions, garlic, cabbages, peppers, aquaculture, cabbages, etc. (regional cooperation through the Jeonnam Agricultural Institute, etc.)
- Major crops produced by farmers in Gyeongsangbuk-do : peppers, tap crops, apples, etc. (Direct cooperation with producers such as the Gyeongbuk GAP Association)

Number	2021 Task Name	Ordering agency	Business size	Business period	Note
A	Patent Map Analysis of IP Baro Support Project for Small and Medium Businesses in 2020 [Task Name: Development of Eco-Friendly Crop Cultivation Application]	Jeonnam Intellectual Property Center	12,230	2020.06.23~ 2020.09.30	Patent registration No. 10-2295013 a patent application 2 domestic patent applications Two overseas PCT applications
B	Patent Map Analysis of IP Narae Program in 2021 [Task Name: Development of Advanced Agricultural Law Information Platform]	Jeonnam Intellectual Property Center	24,571	2021.05.24~2021.08.31	
C	Research and development strategy support project linked to intellectual property rights in the second half of 2021 [Task: Application for farmers and eco-friendly crop cultivation platform based on agricultural big data]	Korea Patent Strategy Development Institute(KISTA)	40,000	2021.09.27~ 2021.12.20	
D	AI Voucher Support Project in 2021 [Task: Establishment of a system for identifying and prescribing pests using AI image recognition technology]	Information and Communication Industry Promotion Agency(NIPA)	335,000	2021.04.01~ 2021.10.31	Application to AI pest identification and prescription system
E	2021 Start-up Retry (Second Chance) Startup Commercialization Support Project [Task name: Artificial intelligence system for prescribing and identifying pests through video (photo)]	Korea Creative Content Agency (KOCCA)	50,000	2021.07.07~ 2021.12.06	
F	Research and development projects tailored to regional demand in 2021 [Task Name: 1. Identification of pests and prescription system using artificial intelligence-based image (photo) recognition technology 2. Customized work instruction system by region and individual for farmers in Jeollanam-do]	Jeonnam Technopark	130,000	2021.08.01~ 2022.07.31	Application to Crop Cultivation Smart Manual
Number	2022 Task Name	Ordering agency	Business size	Business period	Note
G	A Support Project for the Establishment and Operation of the Environmental Data Collection System in the Land Area	Jeonnam Agricultural Research & Extension Services	500,000	2022.02.01~ 2022.12.31	Perform 6 tasks, including BI, CI patent map analysis Application to AI pest identification and prescription system advancement work
H	Global IP Star Companies in South Jeolla Province in 2022	Jeonnam Intellectual Property Center	68,320	2022.06.02~ 2022.08.15	
I	Data Voucher Business in 2022	Korea Data Industry Promotion Agency	87,518	2022.06~ 2022.11	Selection of beneficiary companies, starting to carry out in August
J	Integrated Support Project for Commercialization of Technology Transactions in 2022	Korea Technology Finance Corporation	43,500	Second half of 2022, 1 year	
K	Support Project for Innovative Growth Voucher in Jeonnam Province in 2022	Jeonnam Technopark	15,000	2022.07~ 2022.10	Selection of beneficiary companies
L	Development of Technology Protection Leading Companies	Public Small Business Agricultural Cooperation Foundation	40,000	ongoing	Selection of beneficiary companies
Number	2023 Task Name	Ordering agency	Business size	Business period	Note
M	Support project for establishing and operating an environmental data collection system on land (2nd year)	Jeonnam Agricultural Research & Extension Services	100,000	2023.01.01~ 2023.12.31	Beneficiary companies to be selected
N	Stepping stone for 2023 start-up growth technology development project	Jeonnam Creative Economy Innovation Center	150,000	2023.04.01~ 2024.03.31	
O	2023 Support Project for Building Data for AI Learning [Task Name: Domestic Cultivated Subtropical and Tropical Pest Data]	Korea Intelligence Society Agency (NIA)	1,700,000	Undetermined	Project support scheduled ²¹

03 Growth potential Patent Portfolio & Thesis & Award-winning, etc.



| authentication certificate | 'Certificate of excellence in technology evaluation in 2023'(No. NIC-2023-77-000156)

| Patent registration | 'Big data-based disease prediction system' (No. 10-2295013)
'Adaptive cultivation information provision system through crop cultivation app' (No. 10-2381491)

| Patent application | 'Artificial intelligence-based crop disease and pest identification system' (No. 10-2021-0134716)
'Crop cultivation work instruction system' (No. 10-2022-0131219)
'Smart farming diary system' (No. 10-2022-0131220)
'Farming education platform system using metaverse' (No. 10-2022-0131965)

| Overseas PCT application | 'Adaptive cultivation information provision system through crop cultivation app' (No. KR-2020-017718)
'Artificial Intelligence-Based Crop Disease and Pest Identification System' (No. KR-2021-017615)
'Crop Cultivation Work Instruction System' (No. KR-2022-0131219)
'Farming Education Platform System Using Metaverse' (No. KR-2022-020115)

| Overseas application | '基于作物种植应用的适应型种植信息提供系统' - China (412740628)
'System for Providing Adaptive Cultivation Information Through Crop Cultivation Application' - Thailand (2201008168)
'System for Providing Adaptive Cultivation Information Through Crop Cultivation Application' - Vietnam (1-2-22-08114)

| Design registration | 'Packaging label' (No. 30-1187687)

| Design application | 'Portable terminals with image design displayed' (No. 30-2022-0035206)

| Trademark application | No.40-2021-0195585~8 (AttiFarmer 35 types, 38 types, 44 types, 44 types)
No.40-2022 -0148177 (AttiFarmer 44 types)
No.40-2022-0148178 (Agricultural company corporation, GEEIN35 types)

| Technology transfer | (normal implementation)
Sejong University, (Period: 2022.02~2026.02)

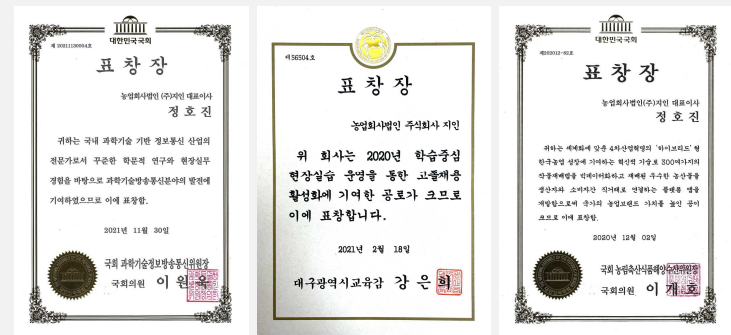
| presentation of a paper | Deep learning-based sensor data anomaly detection feedback system (KICS Korea Communications Association Presents 2023 Winter Comprehensive Academic)

<Certificate>



Certificate of Excellence in Technology Evaluation in 2023 (No. NIC-2023-77-000156)

<Award-winning career>



Korea National Assembly Award (Agricultural Sector) (No. 202012-82)
Daegu Metropolitan City Superintendent of Education Award (No. 56504)
Korea National Assembly Award (Science and Technology Division) (No. 20211130004)

<Patent registration certificate>



"Big Data-Based Disease Prediction System" (No. 10-2295013-00)
"Adaptive cultivation information provision system through crop cultivation app" (No. 10-2381491)
"Device and Method for Diagnosing Pest of Crops" (No. 10-2016-0156674) (Sejong University, Period: 2022.02-2026.02)
"Integrated System for Pest Search" (No. 10-2017-0107135) (Sejong University, Period: 2022.02-2026.02)

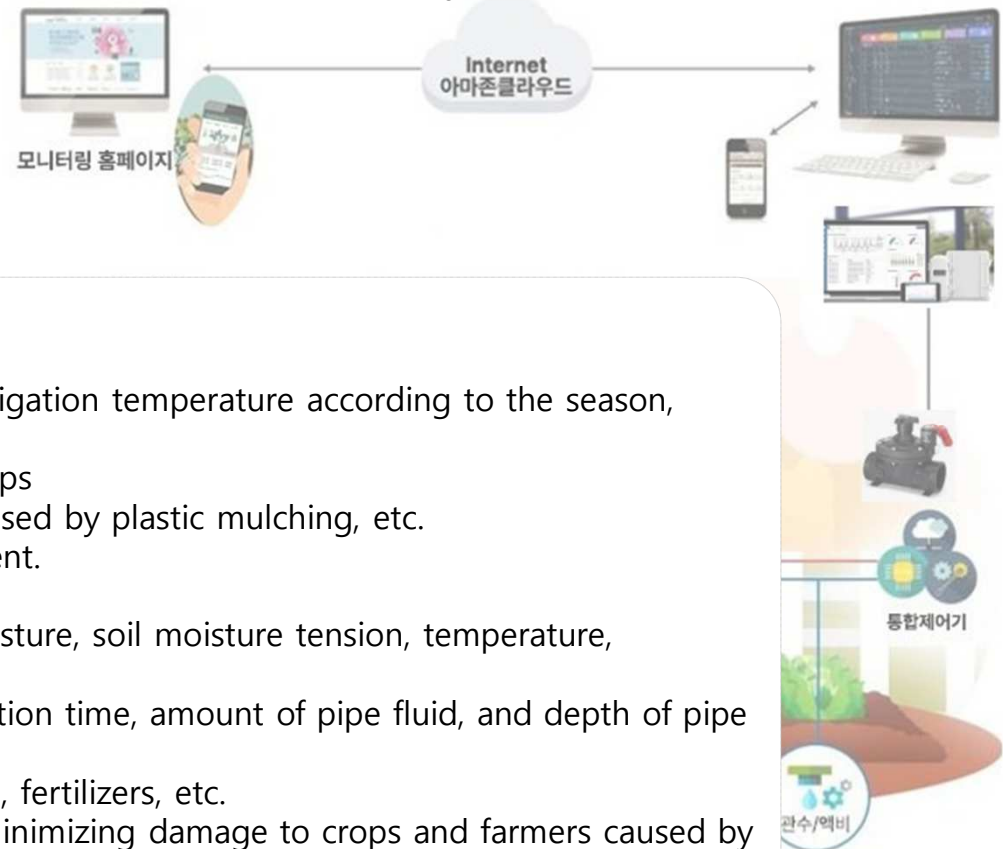


Chapter 4. Investment expectations

- (1) Future technology development goals
- (2) Global expansion plan

| 'AI What is 'AI open-ground automatic irrigation (liquidator) & cold and hot water system'? |

Among the facility smart farm technologies, an automatic irrigation system is applied according to the open-ground environment to digitize and automate open-ground farming.



Automation of irrigation :

- Derive manuals such as optimal irrigation timing and irrigation temperature according to the season, temperature, and geothermal changes.
- Winter – Hot water supply prevents cold damage to crops
- Summer – Cold water supply prevents heat damage caused by plastic mulching, etc.
- This is the goal of increasing crop yield and sugar content.

Automation of tubular fluid :

- According to changes in soil environment data (soil moisture, soil moisture tension, temperature, geothermal temperature, precipitation, etc.)
- Derive optimized manuals such as optimal pipe preparation time, amount of pipe fluid, and depth of pipe fluid burial.
- Establish a system that automatically supplies medicines, fertilizers, etc.
- Through this, the goal of optimizing fertilizer use and minimizing damage to crops and farmers caused by drug misuse.

Future technology development goals

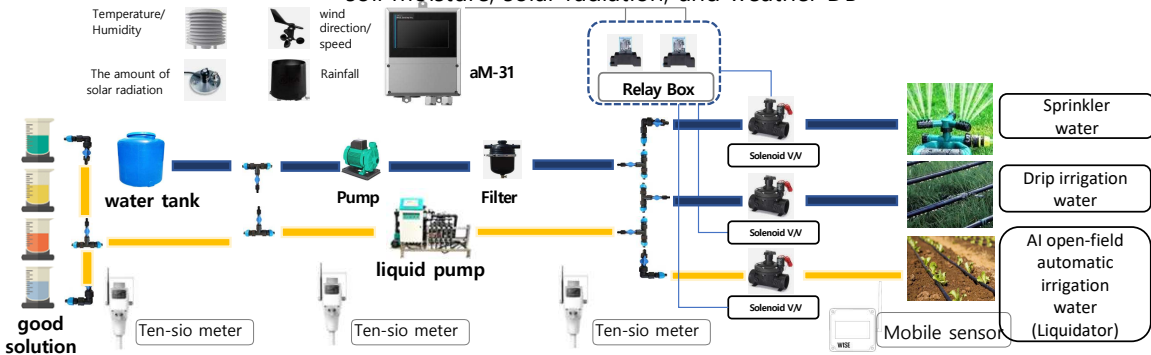
AI field automatic irrigation (liquidator) & cold and hot water system



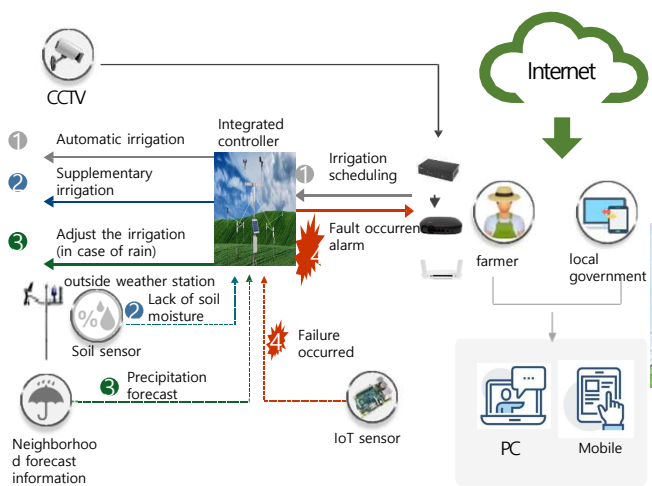
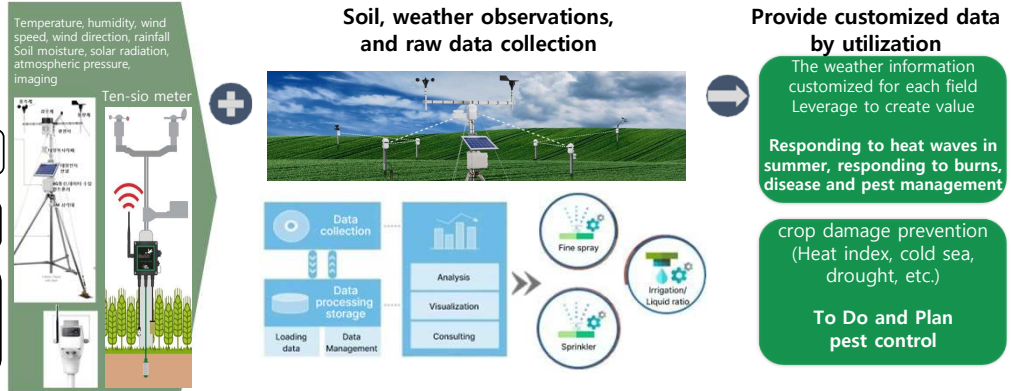
Utilize soil, weather, and observation big data (water management)

AI open-field automatic irrigation control system by crop

AI field automatic irrigation control system with artificial intelligence on soil characteristics, soil moisture, solar radiation, and weather DB



Processing process



모니터링원격제어

Temperature	Humidity	Humidity
23.0 °C	28.0 Rh	15.2 Lx
500	sec	40.0 %
586 ppm		21.0 °C

Fan One	Fan Two
Fan Three	Fan Four

Drip irrigation One	Drip irrigation Two
Sprinkler irrigation One	Sprinkler irrigation Two



Establishment of a Weather Climate Observation System

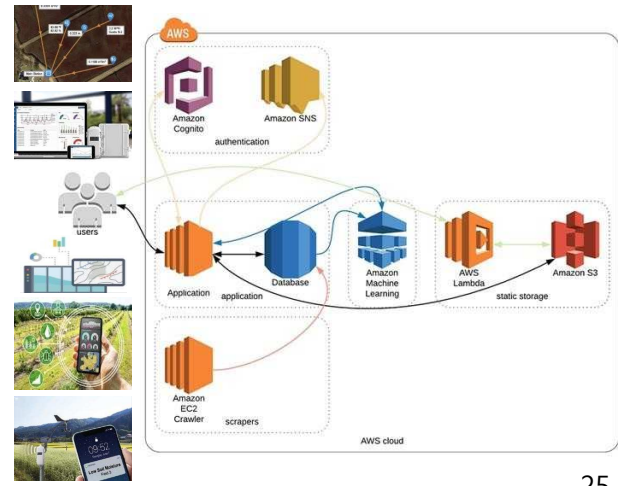
1. Measure temperature, humidity, wind speed, wind direction, rainfall, soil moisture / EC, solar radiation, etc.
2. On-site installation of equipment, development of operation controllers, field design, etc.

Web-based dashboards, building mobile cloud platforms

1. Establish real-time data collection storage, processing, and monitoring systems
2. Amazon Cloud, Python, Django, Node.js, HTML5, CSS, JavaScript, ReactJS, JQuery, Bootstrap, Typescript, React Native, Ionic, DynamoDB

Data processing and service deployment

1. Data linkage and processing exclusively for Amazon cloud big data
2. Development of data analysis services and establishment of utilization services
3. Open API development



| Contents of the chatbot business for farmers |

The entire process of farming consists of chatbots

Q&A Automation Service Features

- Provides all cultivation manuals from sowing to harvesting
- Providing eco-friendly drugs and pesticides necessary for farming
- Provides pest control methods for 150 crops

| Expected effect of farmer's chatbot |

- **Enhancement of Accessibility and Convenience of Various Agricultural Information**
- Can be linked to various agricultural business items (Agricultural Museums, Overseas Exports, Agricultural Education Facilities, etc.)

AttiBot,
a chatbot for farmers

- The year 2023 STT(Speech to Text)-TTS(Text to Speech)
The goal is to provide AI chatbots with questions and answers (Q&A) related to the entire process of farming.
- AI development goal that can easily recognize any dialect and suggest solutions that farmers need, considering the characteristics of regional dialects such as intonation and vocabulary.

3D Agricultural simulation game & agricultural metaverse






- 3D agricultural simulation game based on big data such as crop growth environment, climate, soil information, and crop cultivation manual
- Utilize agricultural experience, education, and content in the same virtual space as the real world
- Through metaverse of 3D game space, real farmers, consumers, agricultural corporations, and local governments are connected in virtual space to activate transactions

Agricultural processing plant



- Promotion of processing plant projects to increase the added value of secondary processed agricultural products and create new jobs - Establishment of a new pre-processing plant under eco-friendly (HACCP) conditions
- Agricultural products will be distributed to Yeongyang-gun, and cooperation plans are being discussed with the Yeongyang-gun Office
- Securing cash flow through stable sales channels

➤ The global smart agricultural market is expected to be USD 408 billion (KRW 587 trillion) in 2022

Entry into the Vietnamese market	Entry into the Chinese market	Entry into other overseas
<p>Large population, high proportion of agriculture to GDP, but underdeveloped smart agricultural infrastructure</p>	<p>Government's aggressive investment in smart agriculture</p>	<p>Global smart agriculture fever, rapidly expanding global market</p>
 <ul style="list-style-type: none"> VinEco Vietnam's largest agricultural company that manufactures and distributes pesticides and eco-friendly drugs in Vietnam Main products: cabbage, asparagus, paprika, coconut, etc. 	<p>'14th Five-Year National Agricultural and Rural Informatization Development Plan' announcement(2022.03.09.)</p>	<p>Global Smart Agricultural Market Forecasts</p>
 <ul style="list-style-type: none"> HACHI FARMS IT-Based Smart Farm Solutions Company About 10 Smart Farm Factories Built Overseas in Vietnam Operated with the support of the Ministry of Science and Technology of Vietnam and the Climate Innovation Center of Vietnam 	<ul style="list-style-type: none"> ➤ Strengthen the ability to support modernization of agricultural and rural areas by enhancing the level of development of Chinese agriculture and rural information and converging modern information technology and agricultural and rural areas by 2025 	<ul style="list-style-type: none"> ➤ North America: North America Climate Smart Agricultural Alliance (NACSAA), Smart Agricultural Education and Equipment Support
 <ul style="list-style-type: none"> TH Vietnam High-Tech Agricultural Sector Private Investment Company Production of organic fruits, vegetables and high-quality rice, promoting the construction of dairy farms 	<ul style="list-style-type: none"> ➤ △Industrialization utilization of smart agricultural technology and products△Achieve 27% of agricultural production informatization rate △Target to surpass 800 billion yuan (about 155 trillion won) in online retail per year for agricultural products 	<ul style="list-style-type: none"> ➤ Asia-Pacific: Smart Agriculture Introduction Period, Smart Agricultural Market Growth Rate Expected to Be Higher Than North America and Europe
<ul style="list-style-type: none"> • Launching the "Atti Farmer" app after establishing a local corporation (JV: Considering joint ventures) → Future plans to produce a work instruction system by making data on Vietnamese farmers' crop laws by region/crop. 	<ul style="list-style-type: none"> ➤ Construction of 100 national digital agricultural innovation application bases and approval of 200 agricultural rural informatization demonstration bases ➤ △Goals such as basic establishment of big data system in agricultural and rural areas 	<ul style="list-style-type: none"> ➤ It is necessary to present a Korean smart agricultural model to secure competitiveness with advanced countries such as the Netherlands and Israel
	<ul style="list-style-type: none"> • Establishing a local overseas branch to establish a local agricultural big data collection system in China and developing technology through cooperation with local local governments and companies. 	<ul style="list-style-type: none"> • Establishing a smart agricultural model for acquaintances through technology development and business expansion by securing big data on smart agriculture in Korea.



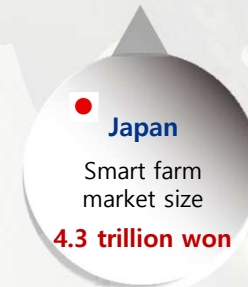
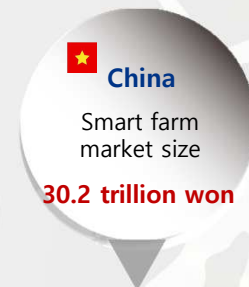
Expanding into the global market through partnerships with various companies

Technology partnership with smart farm leaders

- Sweden Agritech Innovation
- Transferring the Smart Farm System from Belgium's Hortiplan Corporation
- Sharing Pest Data

Overseas smart farm policy technology benchmarking and technology partnership

- Combining Japan's 'Advanced OCR' Digitalization Technology
- Development of AI technology that can be applied to small Japanese farmers



Technology partnerships with local branch offices or overseas

- Research and development and marketing progress
- U.S. Largest Smart Farm 'Salinas Valley' Technology Alliance Agreement

Technology partnership between domestic institutions and overseas partners

- AliWin It's Participation in ET Agricultural Brain Project Sharing Data
- Expanding Agricultural Distribution Solutions in Agreement with Jingdong and At Center
- Participation in the Chinese government's agricultural ICT convergence R&D promotion policy

- Global climate change reduces productivity
- Governments Invest in Smart Farms, Eco-Friendly Agriculture Transformation
- Domestic companies such as Green Plus are also entering the Southeast Asian market



Chapter 5. Company history and teaming

- (1) Company history
- (2) Introducing the CEO
- (3) Our Team
- (4) GEEIN who creates the digital rural area of the future

<p> Corporate name GEEIN CO., LTD.</p> <p> Date of establishment 2019. 03. 15.</p> <p> The head shop Room 317, C-dong, 10 Ujung-ro, Naju-si, Jeollanam-do</p> <p> Representative Jung Ho-jin</p> <p> TEL 010-6803-0330</p> <p> EMAIL atti@geein.co.kr</p> <p> Homepage www.geein.co.kr</p> <p> capital 290 million won (capital: 56 million won, capital surplus: 237 million won)</p> <p> Business field Software development and supply, information service industry, seed · agricultural product distribution, Manufacturing industry: Agricultural drugs · Plant protection, agri-food</p> <p> Major Products AttiFarmer App & Web, Artificial Intelligence to Identify Diseases and Pests, 3D Agricultural Games, Agricultural Metaverse</p> <p> Number of employees 12 people</p>	<p> Company history </p> <p>2018. Fertilizer, eco-friendly drug business, agricultural product distribution in Hampyeong-gun, Jeollanam-do</p> <p>2019. 03. Muan-gun, Jeollanam-do, established an agricultural company corporation, Inc (Patent deduction: IPMAS001-20210615-2312)</p> <p>2019. 12. Ati Farmers' App & Web Development Starts</p> <p>2020. Pangyo, Gyeonggi-do, established Ati Agricultural Department (patent deduction: IPMAS001-20210615-2311)</p> <p>2020. 12. National Assembly Agricultural, Food, Marine and Fisheries Committee Commendation (No. 202012-82)</p> <p>2020. 12. Approval of venture companies (No. 20200301609)</p> <p>2021. Introduction of the job invention compensation system</p> <p>2021. 08. Patent Registration "Big Data-Based Disease Prediction System" (10-2295013)</p> <p>2021. 10. Patent application "Artificial Intelligence-based crop pest identification system" (10-2021-0134716)</p> <p>2021. 12. Establishment of a corporate research institute (No. 2021116392)</p> <p>2021. 12. A mutual cooperation agreement was signed with the Jeonnam Agricultural Research and Extension Services</p> <p>2022. 01. Sejong University's Industrial-Academic Cooperation Group signed a technology transfer (exclusive implementation) contract to secure the right to use the patent "Equipment and Methods for Diagnosing Pest of Crops" (10-1876397)</p> <p>"Integrated System for Pest Search" (10-1986418)</p> <p>2022. 02. Jeonnam Agricultural Research and Extension Services won an order to support the establishment and operation of a field environmental data collection system</p> <p>Signed a mutual cooperation agreement with the Jeonnam Agricultural Research and Extension Services</p> <p>2022. 03. Patent Registration "Adaptive cultivation information provision system through crop cultivation application" (10-2381491)</p> <p>Web-App linkage to determine pests using crop image</p> <p>2022. 10. Patent application "Crop Cultivation Work Instruction System" (10-2022-0131219)</p> <p>Farming Education Platform System Using Metaverse (10-2022-0131965)</p> <p>T-insight Lab (Joint Company) was established in Naju, Jeollanam-do</p> <p>Establishment of Jiin Co., Ltd. in Naju, South Jeolla Province</p> <p>2023. 01 Certification of outstanding technology evaluation companies in 2023 (No. NICE-2023-77-000156)</p> <p>2023. 02 T-insight Lab Co., Ltd. (Joint Company) Approval of Venture Companies (No. 20230202030086)</p>
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| Academic ability | Graduated from Pusan National University majoring in sociology (minor in law)

| Career | 2012 Hyowon Established (Eco-friendly Cosmetics, Distributor of Eco-friendly Products, Trade)
2015 Seedon Co., Ltd. acquired seed sales rights and agricultural business through seed sales
(8 years of experience)

Year (from to)		Academic Association Name	One's duty	Note
2019	Now	Korea-Vietnam Association	Deputy Secretary-General	Daegu/Gyeongbuk Affiliated Institutions
2020	Now	Convergence IT MC, medical convergence MC	regular member	Korea Industrial Complex Corporation
2020	Now	GBA	regular member	Global Business Alliance
2020	Now	Knowledge Vitamin	regular member	
2022	Now	Korea Startup Forum	regular member	Ministry of SMEs and Startups
2022	Now	AI Learning Data Construction Subcommittee	a research fellow	Jeonbuk Technopark
2022	Now	Jeonnam AI Agricultural Council	Chairman	

| Responsible research history (other than projects in progress) |

1. Selection of AI voucher support project by the Information and Communication Industry Promotion Agency (Task Name: Establishment of pest identification and prescription system using AI image recognition technology)
2. Selection of startups to support commercialization of second chance by the Korea Creative Content Agency (task name: AI system for identifying pests and prescribing pests based on video (photo) data)
3. Research and development projects tailored to local demand in Jeonnam Techno Park
4. Jeonnam Agricultural Research and Extension Services' project to establish and operate an open-field environmental data collection system (second year)



Jo Eun-ki

The head of a research institute/
Doctor

Kyungpook National University, Ph.D. in
Agriculture
International Scientist, University of
Maryland, USDA
National Andong University
Director of the 4th Industrial Revolution
Innovation Center/
Deputy Head of Rural Development
Administration/
Director of the Institute of Agricultural
Science and Technology/
Director of the National Academy of
Agricultural Sciences/
Director of Agricultural Technology
Practicalization Foundation/
Director of the Gyeongbuk Agricultural
Food Distribution Education Promotion
Agency



An Yiyong

A marketing representative/CMO

Department of Horticulture, Konkuk
University
Five years of service at the Agricultural
Technology Center/
Nonghyup Chemical worked for 18 years/
more than 300 different ways to grow
crops
Possession of relevant technical
information DB/
Rural instructor, horticultural specialist/
More than 200 times a year, including
recommended instructors at the provincial
level/
Farmers' education and field education are
being conducted



Shin Yong Wan

A technical representative/CTO

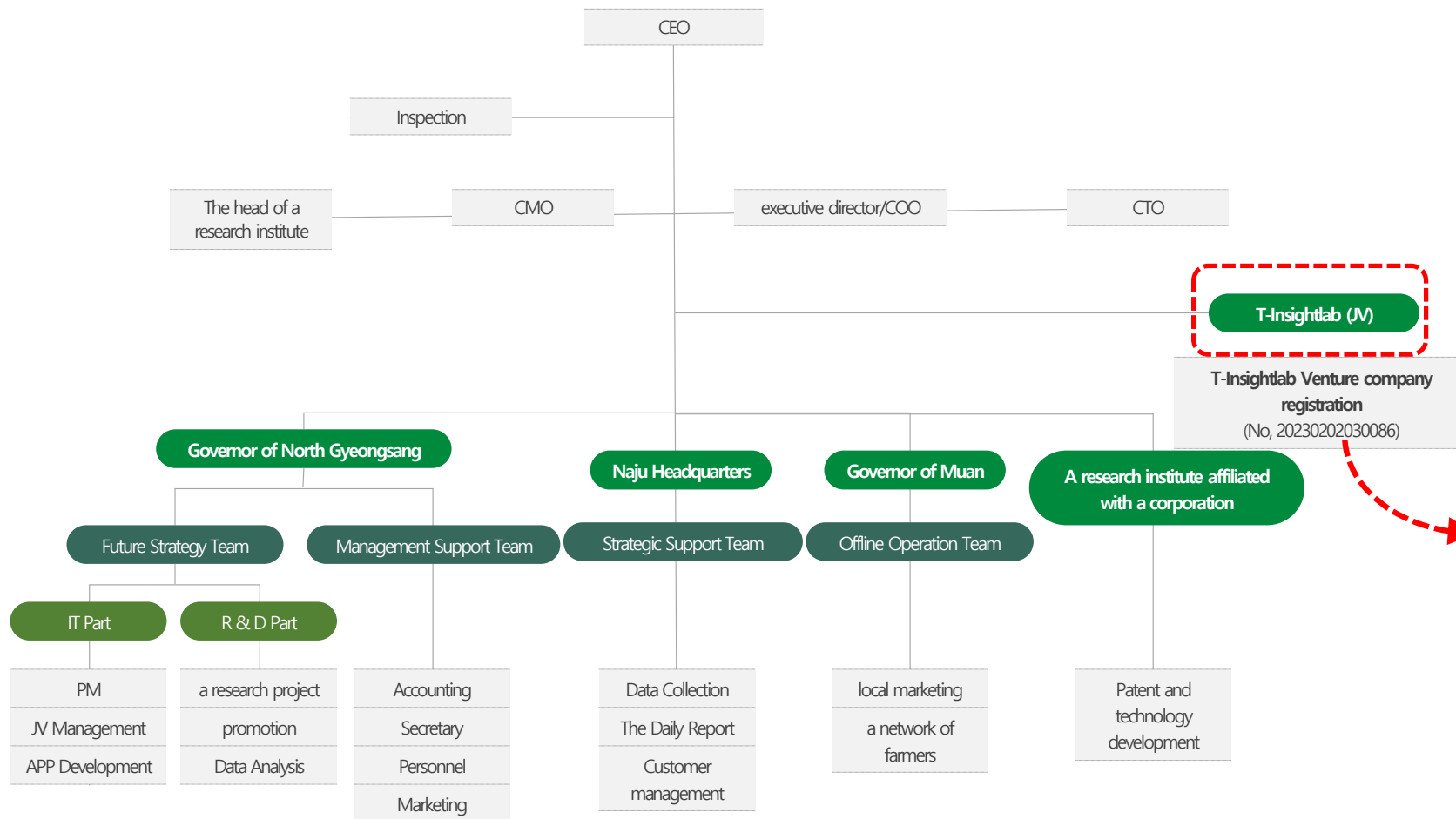
University of Georgia
Master's/Doctor's/
Deputy Director of Human Resources
Development Center/
Development of Bio Reactor for Stem Cell
Business
ETRI Patent Overseas Commercialization
Successful/
Mentor of the Women's Venture
Association/
Establishment of Youth Creative
Experience Laboratory /
First Generation of Artificial Intelligence in
Korea
App & Web Development



Baebong-gu

An executive director/COO

Department of Resource Engineering,
Seoul National University
Director of Planning and Coordination
Office of Korea Coal Corporation/
Coal Industry Rationalization Project Merit
Minister of Power and Resources
Commendation/
Executive Director, Planning and
Coordination Office, Kangwon Land Co.,
Ltd
Kangwon Land Stock Listed on KOSDAQ/
Seven Luck Casino Strengthens Marketing
in China/
an adjunct professor of business
administration at Hallym University



T-Insightlab (JV)

- Development of AI Engine for Agriculture
- Software Development
- Full stack developer
- Front End
- Backend
- Development of AI Engine

The present customary countryside

Technology of GEEIN

Future Digital Rural Areas of the Future

- Insufficient information on new species cultivation
- Dependence on customary agricultural methods
- Increased pest damage

Agriculture's AI solution 'AttiFarmer' app

Smart Farm Technology for Farming in the Field
Automate field farming by applying

Customizing AI-based open space
Automation of cold and hot water pipes and fluids

- Using AI Agricultural Drones
- Completely AI Unmanned Agricultural Machinery Realization
- AI-based multipurpose agricultural robot
>> **Unmanned automated farming with AI**

| GEEIN who makes *AlphaGo of Agriculture* |

▶ GEEIN will innovate in open-field smart agriculture.

Smart Agriculture AI Platform



THANK YOU



Chapter 6. Appendix



Five key capabilities for implementing smart agricultural services of AttiFarmer



Smart work instruction service 'AttiFarmer'



Big Data and Algorithms for Identifying Information on Pest Physiological Disorders



Custom Farming Information System Based on Climate and Geological Information

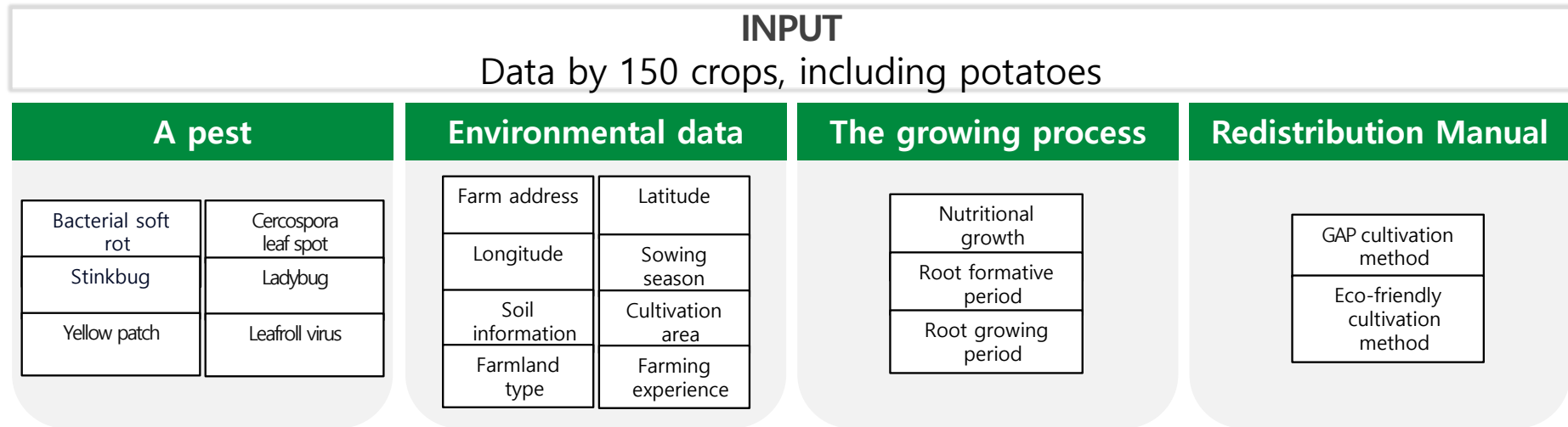


DB Construction System for Optimized Cultivation Method by Crop

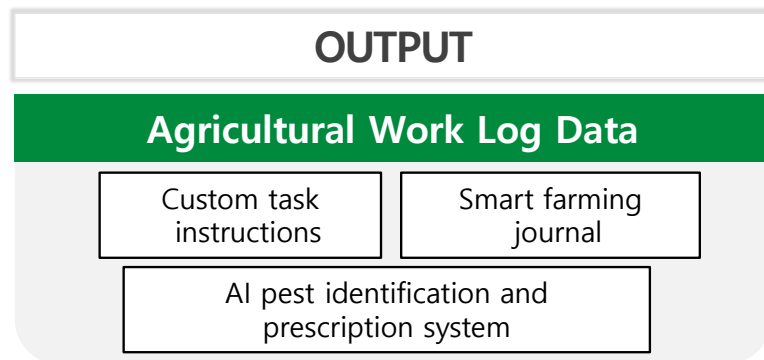


Crop Growth Environment Data Collection and Monitoring System

+ The future of GEEIN, open-field smart agricultural platform



- Integrated data >> Forecast of national production by crop
- Farming journal >> Enables exemplary production agricultural data
- A mechanism for predicting pests is possible

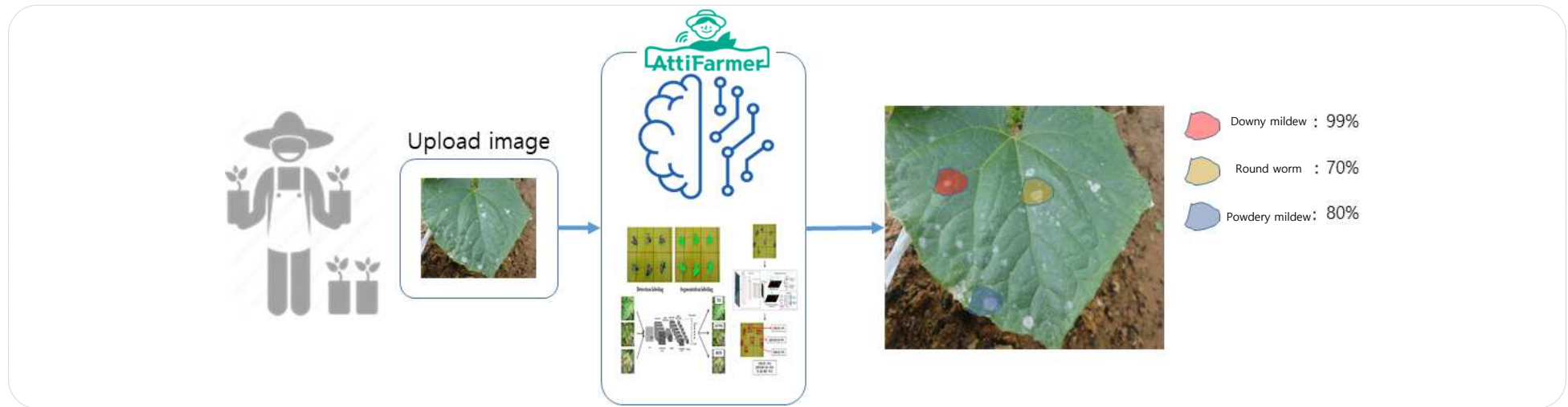


Technology Development Summary

- Enter pest, environmental data, growth process, and cultivation method information by crop
- Provide customized task instructions to users through artificial intelligence
- Agricultural work log analysis strengthens artificial intelligence algorithms



Big data and algorithms for identifying information on pest physiological disorders



01

| Technology, data, and operational know-how held only by GEEIN & AttiFarmer |

- Patent applications for 'Big Data-Based Disease Prediction System' and 'Artificial Intelligence-Based Crop disease and Pest Identification System'
- Early warning of pests and even countermeasures based on data such as climate, soil, and crops
- To strengthen AI learning ability, it currently has more than 250,000 video data and is securing more than 10,000 additional data every week
- Preparing to link to AttiFarmer APP

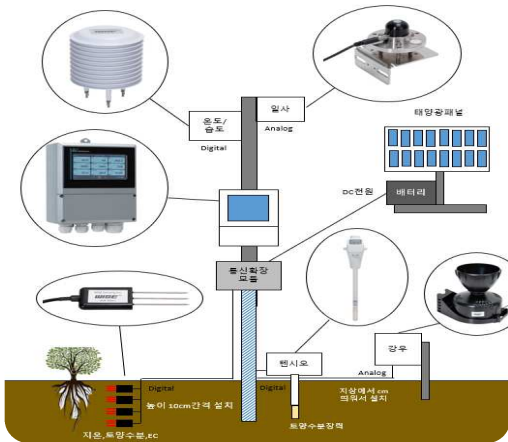
02

| Accelerate data collection with customer acquisition |

- Image and photographic data provided by farmers will accelerate AI learning processing capabilities (interchange of farmers and 'AttiFarmer' data)
- A total of 3 million additional data from more than 150 crops are needed
- Current progress rate at 15%, target to get all data within 2023



Construction of climate and agricultural Environment measurement equipment



Jeollanamdo agricultural research & extension services Cooperative project

01

| Establishment of a system to measure and collect weather conditions of individual farm units in real time |

- Previously, environmental data by region were used, but even in the same area, the micro-weather environment varies greatly by location depending on the difference in topography, resulting in poor accuracy of the collected data
- To solve this problem, we are installing equipment to measure and collect weather conditions for each farm to accurately collect and analyze micro weather data and soil information by location in real time

02

| GEEIN & AttiFarmer are strengthening their capabilities by conducting projects with the Jeollanamdo agricultural research & extension services |

- "A project to support the establishment and operation of a land environment data collection system (the collection of big data and data infrastructure for the land agricultural environment)" Project execution, total project cost of 500 million won
- As of 2022, data collection projects are underway for five crops of garlic, onions, peppers, cabbage, and wheat for No. 50 farmers, and will be expanded
- Accurately collect environmental conditions that directly affect crop growth, increase the accuracy of the correlation analysis of growth environment-growth-production, increase the predicted success rate of the yield model, and develop a pest prediction mechanism



01

| Crop-specific cultivation methods provided by "agricultural craftsmen" with more than 30 years of experience |

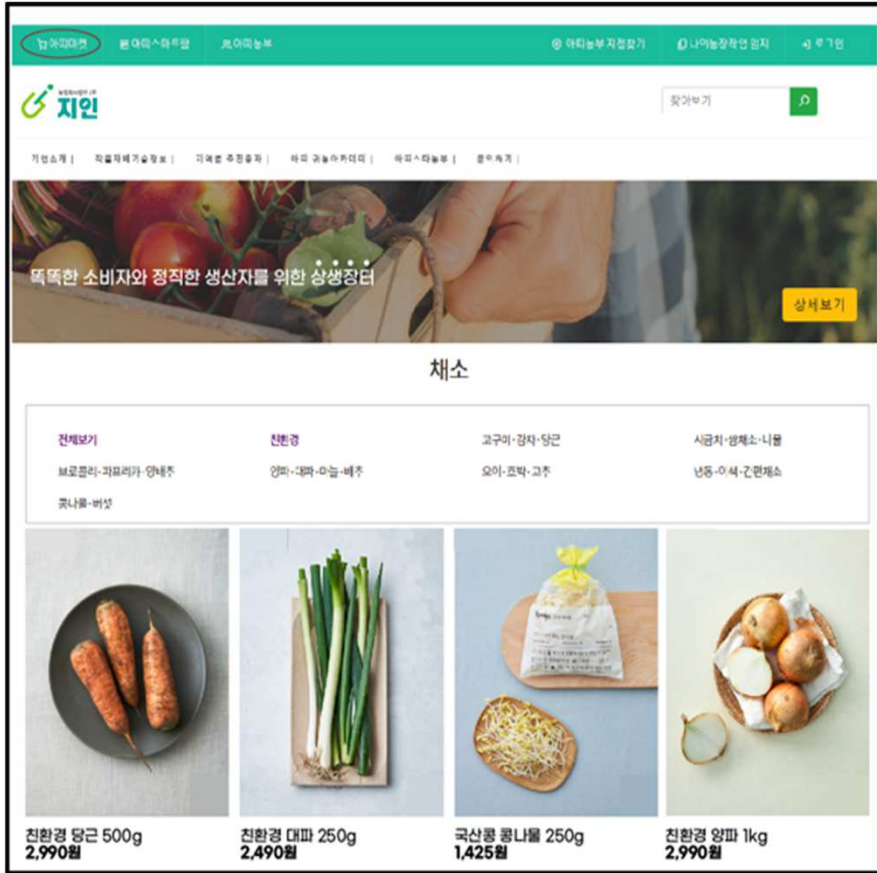
- Has cultivation manuals written one by one according to the characteristics of each crop by experts with more than 30 years of agricultural experience
- The top 30 most cultivated crops in Korea will be first installed in AttiFarmer APP, and will be expanded to all 178 cultivated crops in Korea in the future

02

| Growing DB keeps smart |

- Patent application for 'adaptive cultivation information provision system through crop cultivation app'
- Provides weekly loading timely instruction in the APP calendar in conjunction with real-time weather, temperature, and soil information
- Analyze successful and unsuccessful cases of crop cultivation and continue to optimize the cultivation manual based on farming logbooks prepared and provided by farmers through our APP

+ The future of GEEIN, open-field smart agricultural platform



Atti-Market, an eco-friendly direct trading platform for agricultural products (reactive web)

| Easy trade in eco-friendly agricultural products guaranteed by GEEIN |

- A platform that connects producers and consumers of eco-friendly agricultural products directly
- Reduce intermediate distribution costs
- Provides real-time farm price information

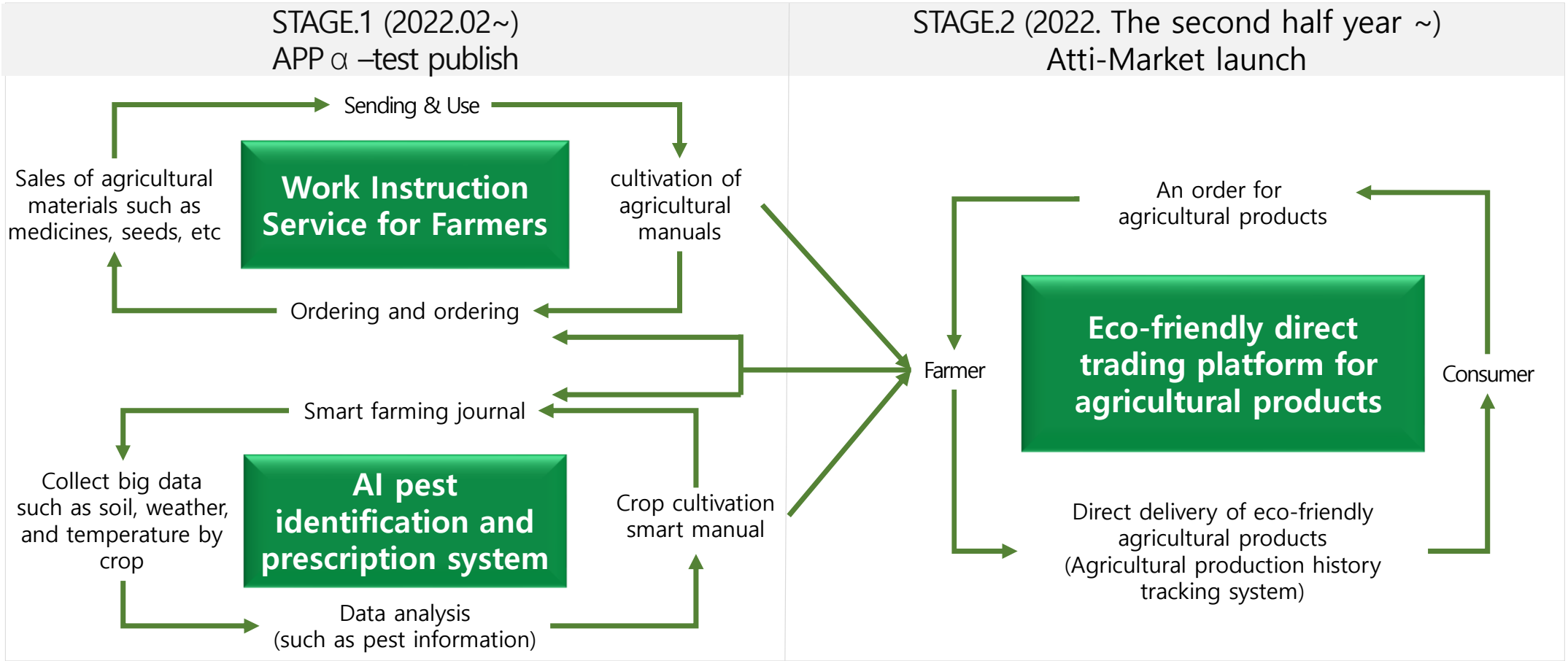
| Check the history of agricultural product cultivation and buy with confidence |

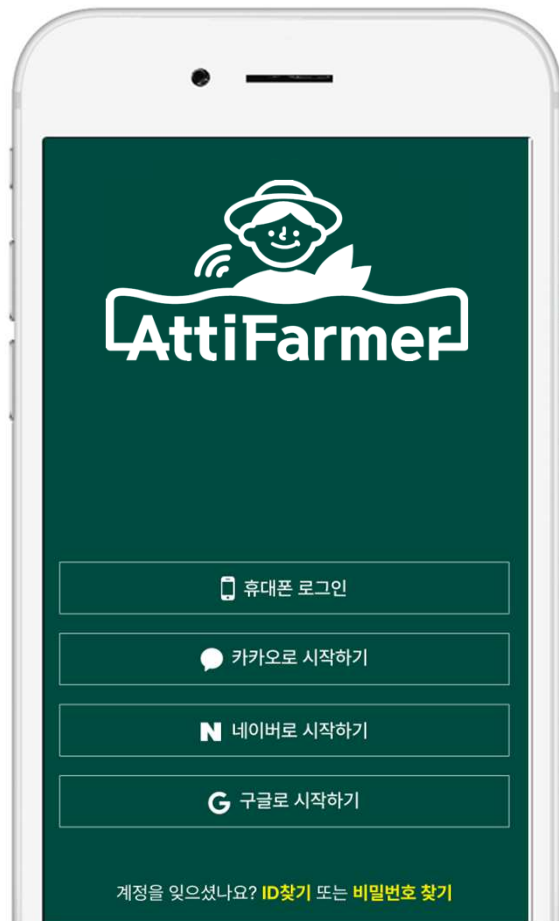
- Implementation of the 'Atti Certification System' to ensure the quality of agricultural products
- Application of agricultural production history tracking system to enhance consumer confidence in agricultural products

Ectation effectiveness

- Boosting consumption of eco-friendly agricultural products
- Increase our influence and brand value in the agricultural distribution market

Artificial intelligence of open-field smart agriculture artificial intelligence 'AttiFarmer'





01

| APP for ease of use by older farmers |

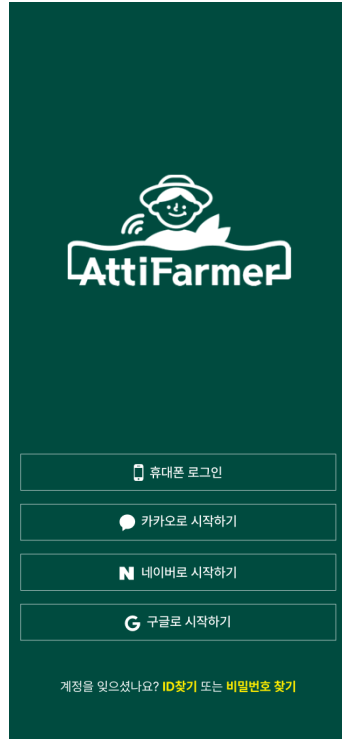
- PC-Smartphone Interchangeable WEB-APP Interface and Customer DB
- Search engine optimization (SEO) exposes products that customers need, increases customer convenience, and promotes product sales
- Large text size and simplified menu for easy use by older farmers

02

| Easy-to-use voice-only APP while working |

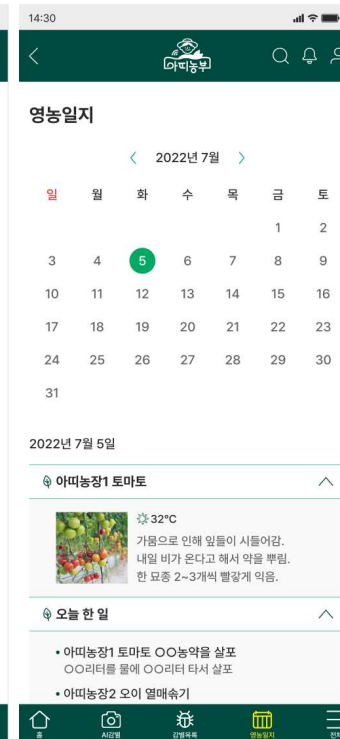
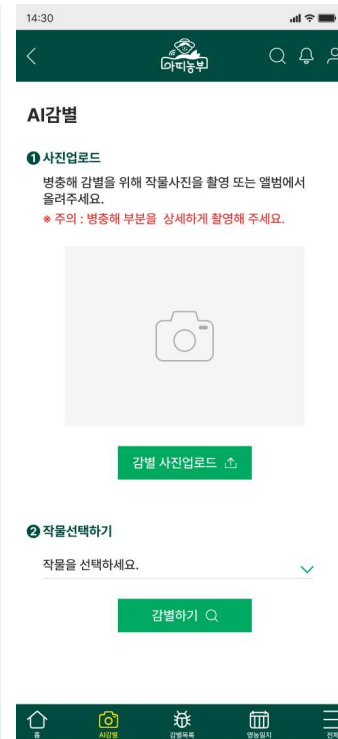
- AI chatbot for farmers will be linked in the future

+ AttiFarmer APP, User-friendly app & web interface



Login screen

- Support for logins linked to smartphone numbers and social IDs



Provide customized crop information and management manuals

- AI pest identification system
- Smart Farming Diary and Smart Work Instruction Service

4. Derive the result value

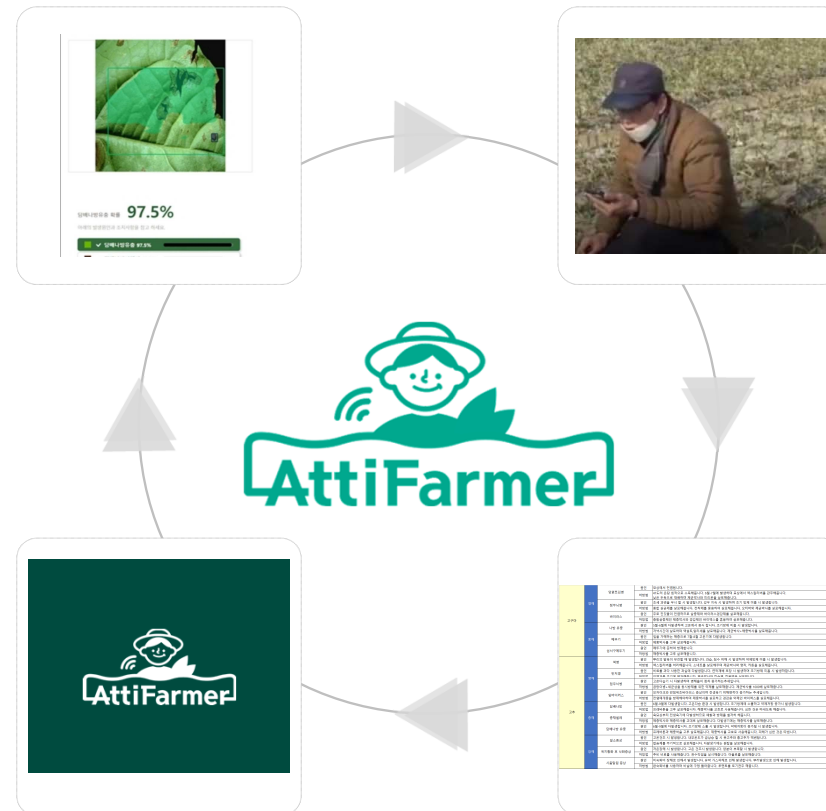
- Output AI performed results
- Introducing a WEB-based visualization solution
- Available in the form of a report for user convenience

1. Farmers' use of APP

- Smart farming journal
- Crop cultivation smart work instruction service
- AI pest identification and prescription system

3. AI analyzes data

- Based on the stored DB, AI performs the request through the analysis framework



2. Save Input to DB

- information used by farmers
-> Save as Excel Data in Admin Unit
- Introducing archiving to validate analysis results and ensure continuous data acquisition

Cooperation system for Korea's best agricultural artificial intelligence service

 <p>농림축산식품부 Ministry of Agriculture, Food and Rural Affairs</p>	 <p>농촌진흥청 Rural Development Administration</p>	 <p>Agriculture, Forestry and Fisheries Food Education Cultural Information Service</p>	 <p>aT Center</p>	 <p>경상북도 GYEONGSANGBUK-DO Gyeongbuk Agricultural Research & Extension Services</p>	 <p>전라남도 Jeollanam-do Office</p>	 <p>전라남도 Jeonnam Agricultural Research & Extension Services</p>	 <p>North Gyeongsang Province agri-food Distribution Education Promotion Agency</p>
		 <p>Agricultural Cooperatives and Pesticide Rooms (Seed & Eco-friendly Pharmaceutical Sales Agency)</p>	 <p>Ace Mulch (Eco-friendly decomposition paper mulching manufactured))</p>	 <p>Goremi Co., Ltd (Delivery of processed agricultural products))</p>			
 <p>Hanul Co., Ltd (Delivery of processed agricultural products)</p>	 <p>Hanwumul Co., Ltd (Delivery of processed agricultural products)</p>	 <p>Wise Sensing Co., Ltd</p>	 <p>Awasoft Co., Ltd</p>	 <p>Bezista Co., Ltd (Delivery of processed agricultural products)</p>			



Hello!
Making agricultural AlphaGo through big data
I'm Jung Hojin, the CEO of an acquaintance of a company.

Due to frequent climate change and natural disasters, pest damage is increasing. And with the implementation of the PLS system in 2019, farmers are having difficulty using conventional pesticides, lack of information on how to grow GAP/green crops, and are in a total mess of worsening profitability due to the complex distribution structure of the agricultural market..

To solve this problem, GEEIN Co., Ltd. launched the agricultural AlphaGo 'Attifarmer' project. There are three main categories of 'Attifarmer'.

- First, it is to establish a pest identification and prescription system using AI image recognition technology.
- Second, it is a customized AI work instruction solution for individual farmers and regions linked to soil, weather, and temperature.
- Third, by establishing an automatic computerized farming log, it provides a reliable agricultural product direct trading platform that can track the history of agricultural product cultivation.

In the future, we will develop AI farmers' chatbots and educational 3D agricultural games for farmers, and the final goal is to develop palmbots (farm robots) through manualization and digitization of cultivation methods.

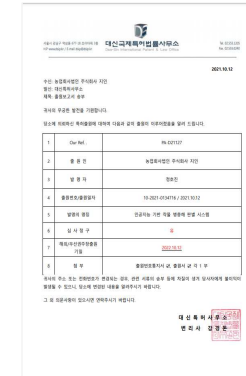
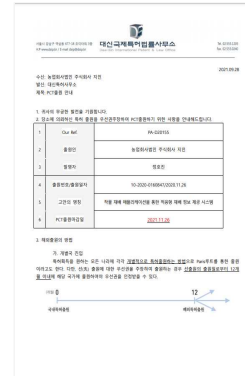
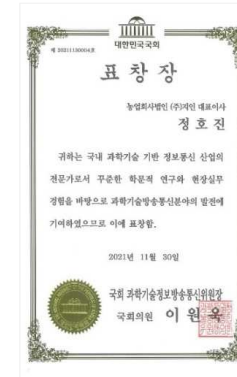
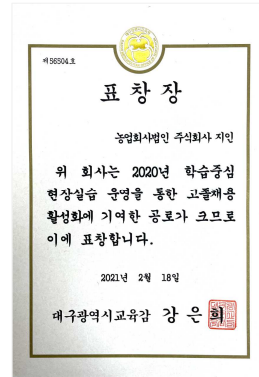
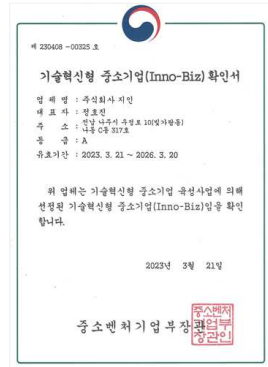
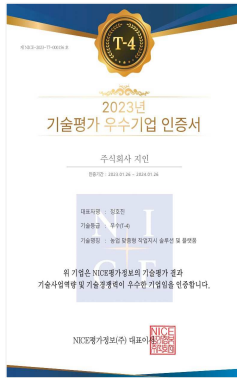
We will build trust between farmers and consumers by providing AI-based predictive solutions for the 'Attifarmer' project.

- | academic ability | Graduated from Pusan National University majoring in sociology (minor in law)
- | Career | 2012 Hyowon Established (Eco-friendly Cosmetics, Distributor of Eco-friendly Products, Trade)
- 2015 Seedon Co., Ltd. acquired seed sales rights and agricultural business through seed sales (8 years of experience)

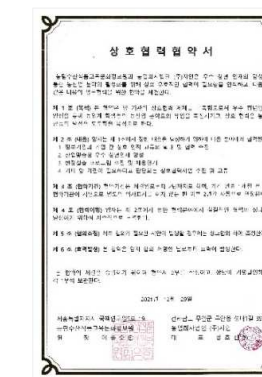
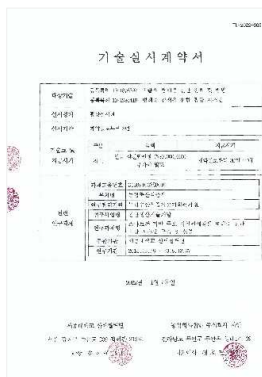
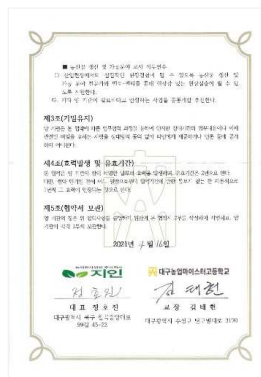
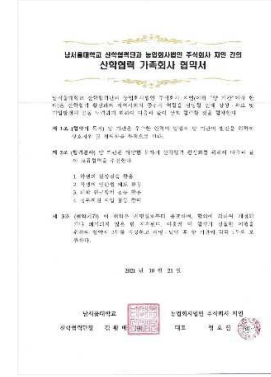
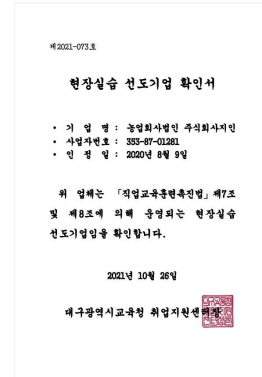
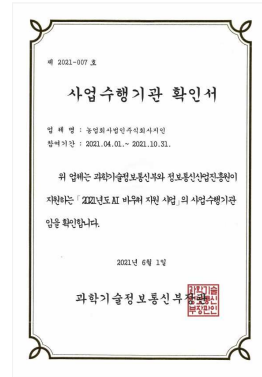
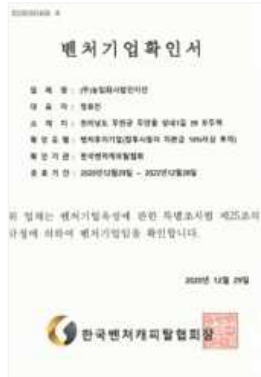
| Responsible research history (other than projects in progress) |

1. Selection of AI voucher support project by the Information and Communication Industry Promotion Agency (Task Name: Identifying pests and establishing a prescription system using AI image recognition technology)
2. Selection of a startup that supports the commercialization of second chance by the Korea Creative Content Agency (task name: identifying pests based on video (photo) data and prescribing AI system)
3. Research and development projects tailored to local demand in Jeonnam Techno Park
4. Jeonnam Agricultural Research and Extension Services' project to establish and operate an open-field environmental data collection system (second year)

+ Award History and Certificates



+ Award History and Certificates



HOME > 일반

농업과 AI 인공지능 시스템의 만남, '아띠농부' 프로젝트 시작

김영수 기자 | 승인 2021.09.23 17:38 | 댓글 0

기후변화로 인해 발생하는 병충해 문제, 농약 사용에 대한 어려움, 복잡한 유통구조로 인한 판로와 가격의 변동성 문제 등으로 농업에 어려움을 겪는 농민들을 돕기 위한 스타트업이 등장했다. 2019년 9월에 설립된 농업법인 주식회사 지인(대표 정호찬)은 AI 인공지능 시스템을 도입해 농부 개인별, 지역별 맞춤형 작업 지시 솔루션을 담은 '아띠농부' 프로젝트를 시작했다.

AI기술개발로는, 정보통신진흥원(NIPA)의 'AI 바우처 지원사업'에 선정되어 ㈜엔티이지와 협력하여 기술개발에 총력을 다 하고 있다. 기술명은 '영상인식 기술을 활용한 병충해 감별 및 처방 시스템'이며 총 15만 장 이상의 병충해 데이터를 수집하여 인공지능 알고리즘에 학습시켜, 이용자가 간단한 촬영만으로 병충해의 원인, 처방법, 약제추천까지 알려주는 '원클릭 솔루션' 웹서비스를 구축하고 있다. 해당 서비스는 2021년 11월 중으로 런칭 할 예정이다.



농업법인 주식회사 지인의 출사표, '아띠농부 프로젝트'

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작물의 발생원인과 조치사항을 인공지능에게 맡겨보시오.

기후변화로 인해 발생하는 병충해 문제, 농약 사용에 대한 어려움, 복잡한 유통구조로 인한 판로와 가격의 변동성 문제 등으로 농업에 어려움을 겪는 농민들을 돕기 위한 스타트업이 등장했다.

2019년 9월에 설립된 농업법인 주식회사 지인(대표 정호찬)은 AI 인공지능 시스템을 도입해 농부 개인별, 지역별 맞춤형 작업 지시 솔루션을 담은 '아띠농부' 프로젝트를 시작했다.

[AI 바우처] 고령화 시대 농·축·수산업, 인공지능에 미래가 달렸다

AI 활용에 양식장에 사료 자동 공급하고 병충해도 예방

김영수 기자 | 입력 2021/10/07 07:34

방은주 기자 | 기자책이구독 | 기사의 다른기사 보기

수산업뿐 아니다. 고령화로 힘겨워하고 있는 농업과 축산업 분야에도 시가 큰 역할을 할 수 있다. 통계청이 발표한 2020년 농림어업총조사 결과에 따르면 농림어가의 65세 이상 고령인구 비중이 41.7%나 됐다. 인구 고령화와 산업단지 및 택지 조성으로 영농여포기가 늘면서 농림어가 인구도 지속적으로 감소하고 있다. 이는 국내뿐 아니라 세계적 현상으로 농업 분야 고령화가 문제되면서 무인 로봇을 사용하는 스마트팜, 농약 살포 드론, 순환식 재배시스템인 트릴러 컨베이어 등 다양한 첨단 기술이 농업과 축산 현장에 적용되고 있다.

인공지능과 농업 기술의 만남, 농업법인 주식회사 지인의 '아띠농부' 프로젝트

김영수 기자 | 승인 2021.09.23 17:37 | 댓글 0

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아띠농부는 농업에 최적화된 각종 정보와 유기농 재배법의 매뉴얼을 통해 친환경 고품질, 다수확이 가능하도록 AI 인공지능 시스템을 도입한 것이 가장 큰 특징으로, 모바일 앱과 웹사이트를 통해 이용할 수 있다.



농업과 AI 인공지능 시스템의 만남, '아띠농부' 11월 런칭 예정

이주복 기자 | 승인 2021.09.24 10:00 | 댓글 0



기후변화로 인해 발생하는 병충해 문제, 농약 사용에 대한 어려움 등으로 농업에 어려움을 겪는 농민들을 돕기 위한 스타트업이 등장했다. 2019년 9월에 설립된 농업법인 주식회사 지인(대표 정호찬)은 AI 인공지능 시스템을 도입해 농부 개인별, 지역별 맞춤형 작업 지시 솔루션을 담은 '아띠농부' 프로젝트를 시작했다.

나주시 'SI 기반 미래형 농업도시 구축' 포럼

By 나주시-박승업 기자 syupark22@jillko.com | 게재 2022-02-15 15:51:27



나주혁신도시에서 'AI 기반 미래형 농업도시 구축' 포럼


농업 대전환을 위한 디지털농업 활성화의 필요성을 논의하는 'SI 기반 미래형 농업도시 구축' 포럼이 15일 광주전남혁신도시 소재이스코빅 타운홀에서 개최됐다.

한국과중광주전남지역연합회, 더 큰 나주발전선, 시농업협회와 주최로 열린 이날 포럼은 최용국(전남 대영예과수·광주전남과기중 연합회장) 교수, 양병태 전 전남도 정무부지사, 정호진 시농업협회회차장, 신윤호 미국 IP벨을 한국지사장, 박만수 신지시 농업인, 조근기 경북농식품유류교육진흥원장, 나평환(전남대) 교수, 박시현(한국농촌경제연구원 원외연계산업연구위원) 박사 등이 참석했다.

농업법인 지인, '노지환경데이터 수집체계 구축 사업' 보고회에서 연구결과 발표

김영수 기자 | 승인 2022/07/17 17:17 | 댓글 0

농가의 기상정보와 농산물 수확량 상관관계 밝혀



전남 13일 전남농업기술원이 개최한 '노지환경데이터 수집체계 구축 사업' 보고회에서 지인(대표 정호찬)이 연구결과를 발표하고 있다. 사진=이재민

농작물 재배관리 업체인 ㈜지인은 전남농업기술원이 지난 13일 개최한 '노지환경데이터 수집체계 구축 및 운영지원사업' 중간보고회에 참석했다고 17일 밝혔다.

이날 전남기술원 비즈니스센터에서 열린 중간 보고회는 농촌진흥청, 전남농업기술원 관계자 및 업계 실무자들이 참석한 가운데 ㈜지인이 현재 수행 중인 전남도 스마트농업 5개 분야 중 농작물, 기상, 토양수분장력, 전기전도도(EC) 등 정밀 센서 장비를 실제배원 데이터를 통해 농가의 기상정보와 농산물 수확량의 상관관계를 파악한 연구를 발표했다. 또한 ㈜지인은 이날 사업에 대한 토론을 통해 다른 방안들을 적극 수용 향후 연구결과를 도출하겠다고 밝혔다.

THE BLOG VOICE.COM

Atti Farmer: The Use of AI Technology to Solve the Problems of Modern Farmers

November 19, 2021

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Atti Farmer: Solving Agricultural Challenges with Artificial Intelligence

The agricultural practices before the dawn of technology development and artificial intelligence are being replaced by advanced technology in agriculture. The production of agricultural products is increasing, and the demand for agricultural products is increasing. However, there are still many challenges in agriculture. In order to solve these challenges, artificial intelligence (AI) is being applied to agriculture. AI is being used to analyze agricultural data and provide farmers with valuable information. AI is also being used to automate agricultural tasks, such as irrigation and pest control. AI is being used to improve the efficiency of agricultural production and to reduce the environmental impact of agriculture. AI is being used to help farmers make better decisions about their crops and their farms. AI is being used to help farmers increase their yields and to reduce their costs. AI is being used to help farmers improve the quality of their products and to reduce the risk of crop failure. AI is being used to help farmers adapt to climate change and to other challenges of modern agriculture. AI is being used to help farmers become more sustainable and more profitable. AI is being used to help farmers become more resilient and more resilient to the challenges of modern agriculture. AI is being used to help farmers become more successful and more successful in their farming operations. AI is being used to help farmers become more happy and more happy in their farming lives. AI is being used to help farmers become more fulfilled and more fulfilled in their farming careers. AI is being used to help farmers become more successful and more successful in their farming lives. AI is being used to help farmers become more happy and more happy in their farming lives. AI is being used to help farmers become more fulfilled and more fulfilled in their farming careers.

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Atti Farmer: Artificial Intelligence Troubleshooter for Modern Farmers

November 19, 2021

Atti Farmer is a mobile application that uses artificial intelligence (AI) to help farmers solve agricultural problems. The app is designed to be user-friendly and easy to use, and it provides farmers with valuable information and advice. The app is available on both iOS and Android devices. The app is designed to be user-friendly and easy to use, and it provides farmers with valuable information and advice. The app is available on both iOS and Android devices. The app is designed to be user-friendly and easy to use, and it provides farmers with valuable information and advice. The app is available on both iOS and Android devices.

Knowledge - Guide

Korean Startup 2-in-Aims to Solve Agricultural Challenges with AI

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