

Agricultural
Corporation
Company
SOLBIO INC.

Eco-friendly fertilizer production company

The company profile is designed for minimal printing for recycling.

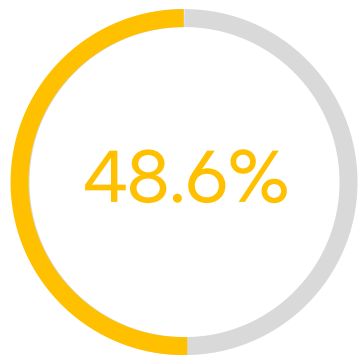
We care about
leaving a better planet
for **future generations**

Agricultural Corporation Company SOLBIO INC.
is a company that produces eco-friendly fertilizers established in April 2019. The head office located in Okcheon, Chungcheongbuk-do focuses on developing new products, and the branch located in Geumsan, Chungcheongnam-do, where there is a lot of ginseng farmland, focuses on product sales.

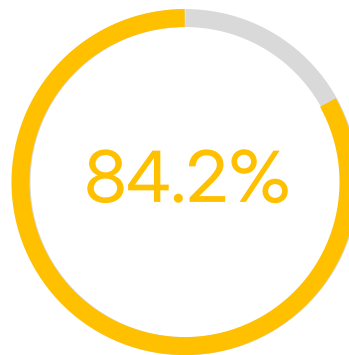
Our company achieved sales of \$210,000 in the first year of its establishment, and we hope to grow into a company that supplies Asia's best eco-friendly fertilizers based on the technology possessed by our representatives and members.

Our vision is to grow into the best eco-friendly fertilizer company in Asia. And our mission is to contribute to sustainable agriculture by reducing the use of chemical fertilizers and pesticides by supplying eco-friendly fertilizers to farmers.

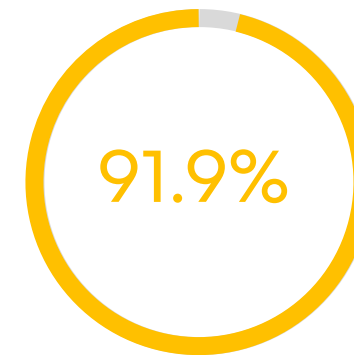
Changes in Consumption Patterns after COVID-19



About half of city dwellers have become more sensitive to the safety of agricultural and livestock products since COVID-19



84.2% of the total respondents agreed on the importance of domestic production and self-sufficiency of agri-food, and people's awareness of food security was spreading.

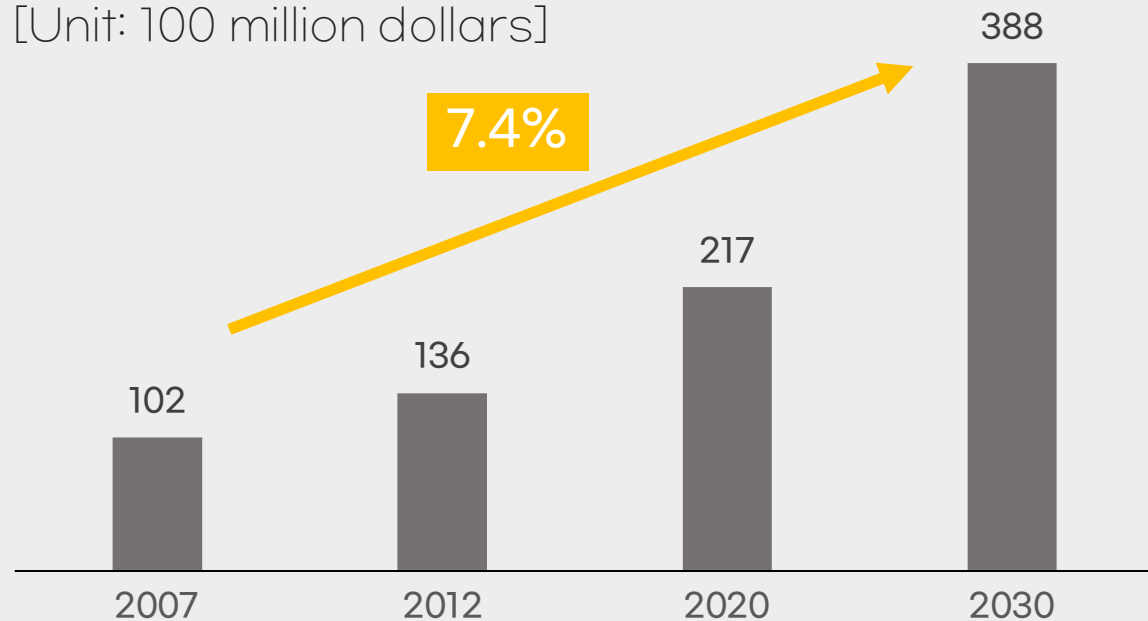


91.9% of the total respondents said that they maintained or increased their purchase of eco-friendly agricultural products

Market Analysis

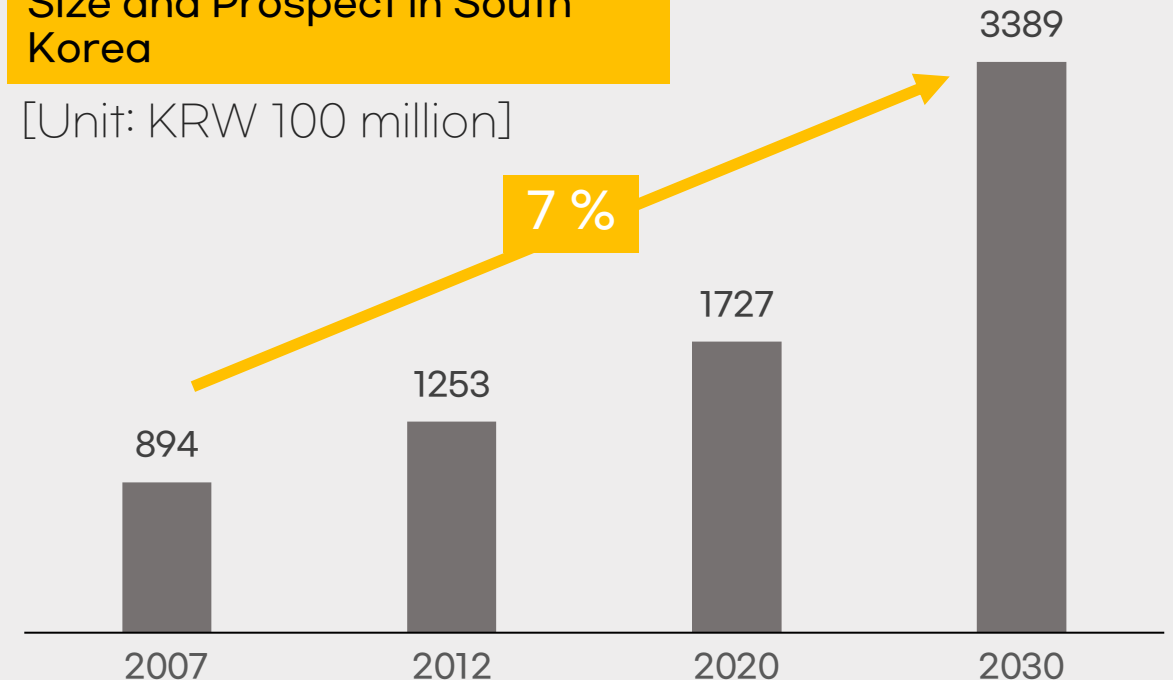
Global Eco-Friendly Fertilizer Market Size and Prospect

[Unit: 100 million dollars]



Eco-Friendly Fertilizer Market Size and Prospect in South Korea

[Unit: KRW 100 million]



The demand for eco-friendly fertilizers that can replace chemical pesticides has **surged** due to the strengthening of policies for eco-friendly agricultural products, the increase in consumer demand, and the prolonged COVID-19.

Customer's Need for Eco-Friendly Fertilizer

1 Changing lifestyles: growing demand for eco-friendly agri-food

In the past, pests and weeds were easily controlled by using pesticides and chemical fertilizers, but side effects such as pesticide residue, poisoning, and salt accumulation due to excessive use appeared.

2 Reduced a competitive price eco-friendly agricultural food

Eco-friendly agricultural materials currently sold in the market are expensive and act as an obstacle to the realization of eco-friendly agriculture.

3 Activation of cross-border trade of eco-friendly agricultural products

The size of the eco-friendly material market is also expanding as the government support for eco-friendly agricultural products has been strengthened around the world and the demand for it has increased recently.

Solutions to Customer Needs

1 Development of eco-friendly products to replace chemical products

Development of eco-friendly agricultural materials to produce eco-friendly agricultural products and cultivation of the vitality of soil while protecting human and animal health and preserving the ecosystem

2 Development of eco-friendly pesticides and herbicides with price competitiveness

Development of materials that can suggest ways to solve various plant diseases in an eco-friendly way

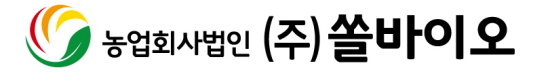
3 Development of eco-friendly agricultural materials that meet international certification conditions

Development of eco-friendly agricultural materials that meet international certification conditions such as Codex and IFOAM

3. Our product

Hwang Geum Dong

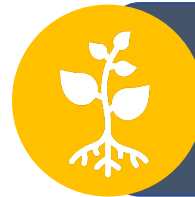
Eco-friendly fertilizer for pest control



This product is a micro-element complex fertilizer containing **sulfur and neem oil** as main raw materials, and an eco-friendly fertilizer that **can replace chemical fertilizers and pesticides** (Organic Agricultural Materials Disclosure-2-6-060)



Reduces insect population by suppressing spawning, feeding, and molting of pests



Helps in plant growth and development



Improves soil quality

Competitor Analysis

		
\$35 (1L)	Price	\$40 (1L)
1 bottle for 1,000L	Volume	4 bottles / 1,000L
No treatment marks left	Distiction	Treatment marks left
No precipitates formed during storage		Precipitates formed during storage
Liquid and granular type	Type	Liquid type

Effects on Plants

'19 Jeollanam-do Muan
Onion Field Test



Control



Hwang Geum Dong
treatment

'19 Gochang
Barley Field Test Cloth



Hwang Geum Dong
treatment



Control

<Comparison of roots after
harvesting tomatoes>

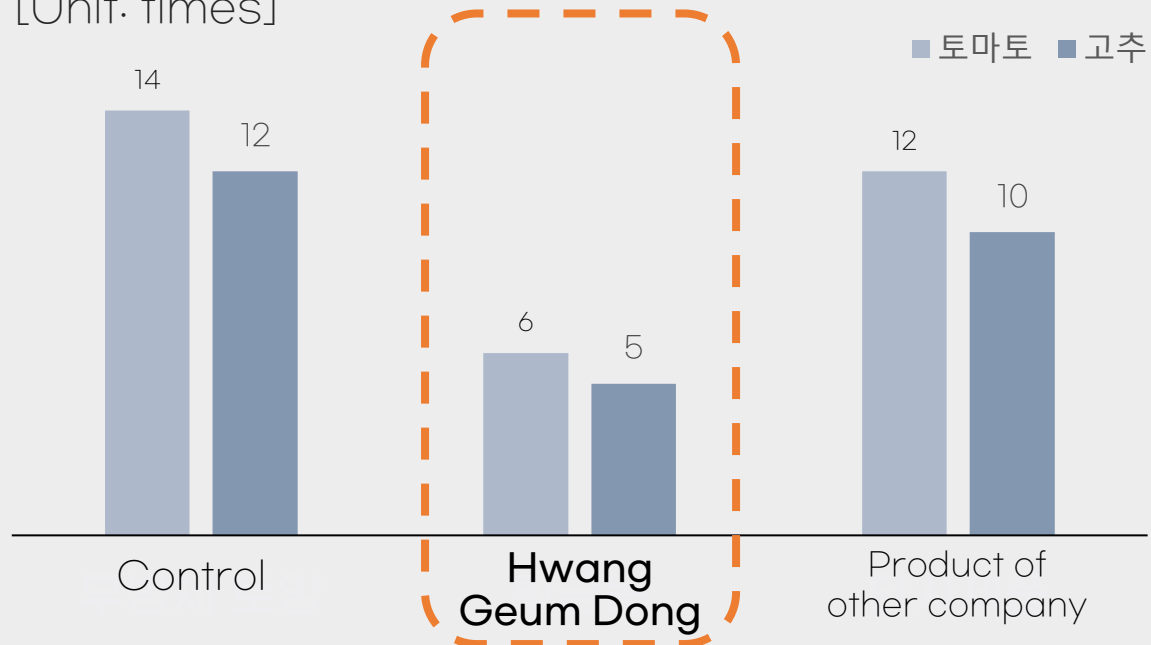


As a result of field experiments and pot experiments
Hwnag Geum Dong has excellent effects on the growth of roots and leaves as well as prevention/prevention of pests and diseases of crops.

High price competitiveness

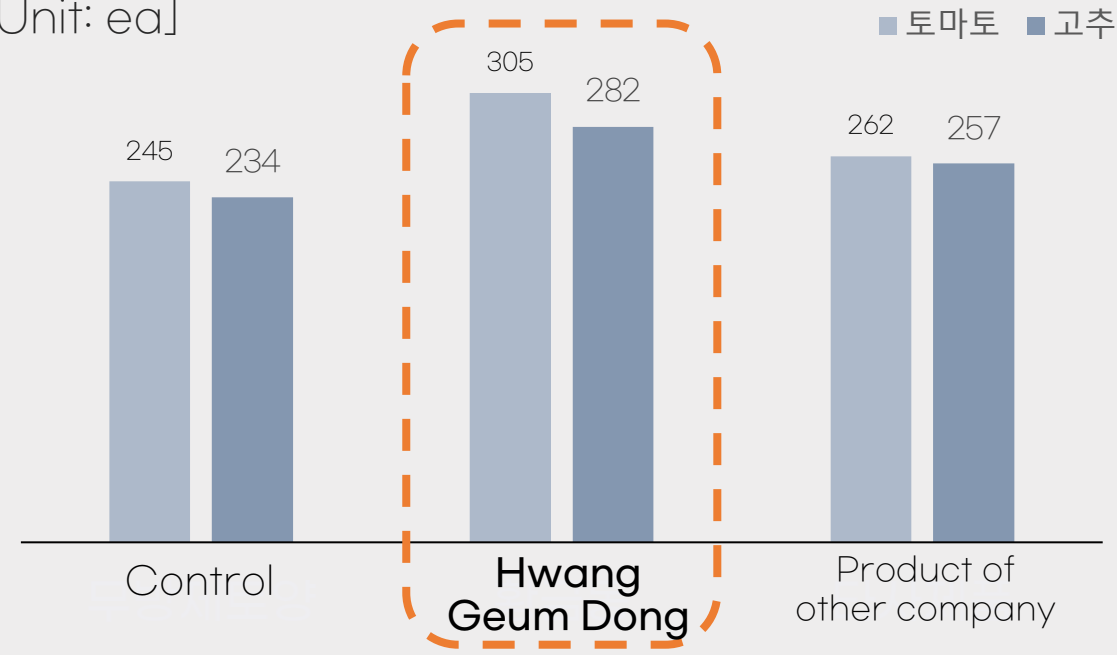
The number of treatments

[Unit: times]



Crop yield according to pesticide type

[Unit: ea]

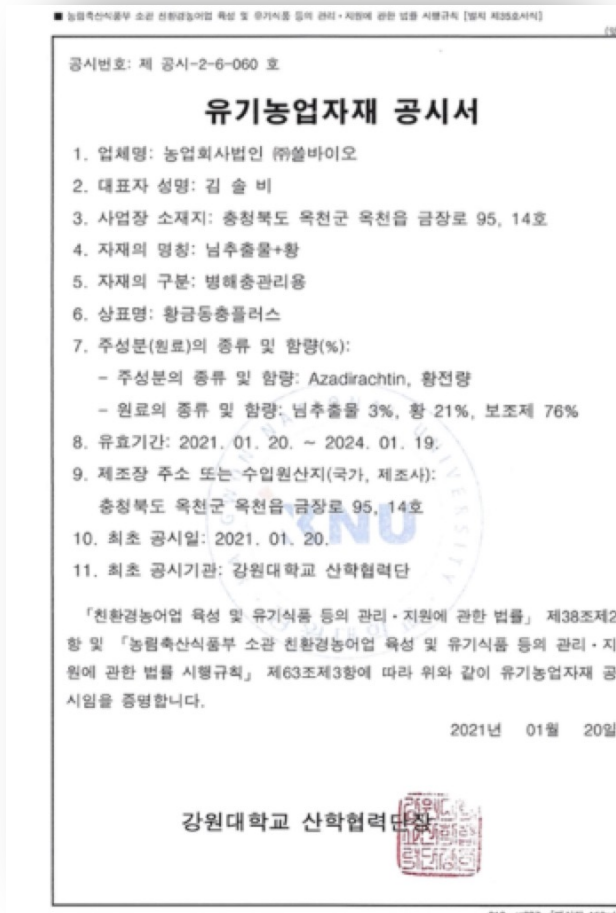
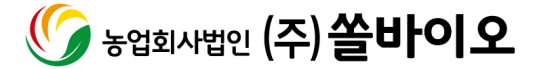


As a result of our own experiments on peppers and tomatoes, compare to other products, **when we used Hwang Geum Dong, it is possible to obtain a large yield with less fertilization. Therefore, this product is excellent in reducing agricultural costs.**

3. Our product

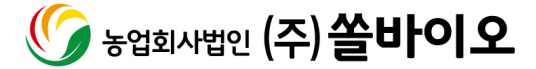
Certification

Patent registration, organic agricultural material disclosure, trademark registration completed



3. Our product

A-SOL Eco-friendly Microbial Fertilizer



Eco-friendly microbial agricultural material containing *Lactobacillus plantarum*, kaolin, seaweed extract, and humic acid that helps plants grow (Organic Agricultural Materials Disclosure-2-3-710)



Promotes plant growth



Prevents diseases caused by *Fusarium*



Maintains the number of viable microorganisms even after 3 months of storage by granulation

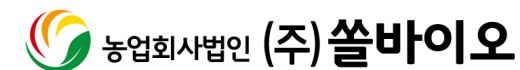


can be used for composting agricultural waste, which helps eco-friendly agriculture.

3. Our product

Chitin-Soil

Eco-friendly fertilizer for soil improvement



Chitin Soil is an eco-friendly fertilizer for soil improvement that **contains prebiotics including dietary fiber and saponin**, and a product developed with a patent for 'Active composition for beneficial bacteria for preventing pests and promoting roots and growth' (Organic Agricultural Materials Disclosure-2- 3-758)



Prevents pathogens through actinomycete activity



Helps decompose salts in fermented organic matter



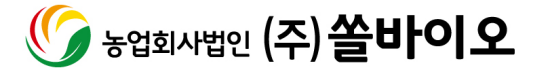
Helps rooting and increases growth



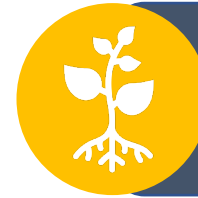
Improvement of continuous crop failure and soil improvement

3. Our product

Dr.SOL Microbial fertilizer containing our patented strain



Eco-friendly microbial agent using our patented strain, *Pseudomonas fluorescens* Solbio-1, excellent for **preventing pathogens and promoting plant growth** (Organic Agricultural Materials Disclosure-2-3-757)



Excellent for promoting the growth of crops



Has a disease control effect against Fusarium bacteria



Eco-friendly and safe for human body using microorganisms derived from nature



can be used for composting using agricultural by-products, helping eco-friendly agriculture

3. Our product

Other Products

Three M



- Increases the effect of pesticides and nutrients
- Prevents traces of pesticide
- Excellent on the effect as a spreader sticker
- Minimize foaming



Centrico Vaccine

- Soil improvement and decompose salt removal, cation replacement, soil improvement effect
- Strong rooting effect : promotes early growth
- Biopesticides effect: blocking, defending, attacking and eliminating harmful pathogenic fungal access

Sol-Calmag



- Helps balanced growth by providing essential nutrients and minerals
- Promotes root growth and reduces damage from continuous cropping, salt and alkali
- Effective in activating soil microorganisms



Gyuin Doctor

- Eco-friendly fertilizer containing phosphoric acid, potassium, silicic acid, and microelements
- Anti-fungal, anti-fouling, anti-aging, strengthening of disease resistance
- Increases fruit color, sugar content, storability and yield
- Helps in micromuscular development and bulbar hypertrophy

Other Products

Perfect Gold

Chitosan micronutrient fertilizer / Continuous nutrient supply is possible with simple fertilization

- Improves the size, sugar content, color, and storability of fruit trees, vegetables and bulbs
- Improves the bad environment of the root zone and promotes rooting and growth
- Improving immunity and resistance
- Helps to absorb more than 99% of nutrients by chelation

Kalmaking

- Ability to control acidity (pH)
- Improves calcium deficiency, base substitution ability, lack of sunlight, and nitrogen excess
- Excellent for strengthening cell membrane, improving disease resistance, and developing fine roots
- Activation of structure formation and metabolism of enzyme proteins in plant cells
- Inhibition of coating, increase in sugar content, increase in hypertrophy and coloration, and excellent storage properties to prevent fall

Yellow Sulfur MgO

Products containing water-soluble MgO and high-purity sulfur

- Overcoming and recovering yellowness
- Prevention of yellowing
- Promotes growth through photosynthesis
- Thicken leaves, luster, promote flowering
- Early fall leaves, increased sugar content and yield

Perfect Chito

Complex micro-element fertilizer for basal and additional fertilization

- Improves the bad environment of the root zone and promotes rooting and growth
- Improving immunity and resistance
- Helps to absorb more than 99% of nutrients by chelation

Company History

2019

- '19. 3. Selected for support preliminary entrepreneurs from Chungbuk Creative Economy Innovation Center
- '19. 4. Established SOLBIO Co., Ltd

2020

- '20. 1. Established Geumsan Branch
- '20. 3. Entered the 10th Youth Entrepreneurship Academy hosted by Korea SMEs and Startups Agency (KOSME)
- '20. 5. Changed of registration to Agricultural Corporation Company SOLBIO INC.
- '20.11. Established R&D department
- '20. 12. Received the Outstanding Entrepreneur Award by KOSME

2021

- '21. 1. Disclosure of 'Hwang Geum Dong Plus' as organic agricultural material
- '21. 2. Started R&D project with Foundation of Agri. Tech. Commercialization & Transfer
- '21. 6. Started R&D project with Ministry of SMEs and Startups
- '21. 7. Signed industry-university cooperation with Mokwon University
- '21. 11. Disclosure of 'A-SOL' as organic agricultural material

2022

- '22. 2. Registered Certified Venture business Company
- '22. 5. Selected as an excellent start-up company by the Chungcheongbuk-do Business Promotion Agency
- '22. 5. Disclosure of 'Chitin-Soil' and 'Doctor Sol' as organic materials

Key People



Solbi Kim, CEO

Possessing many patented technologies for manufacturing eco-friendly fertilizers

Plant Resources Major

Multiple awards in the field of entrepreneurship

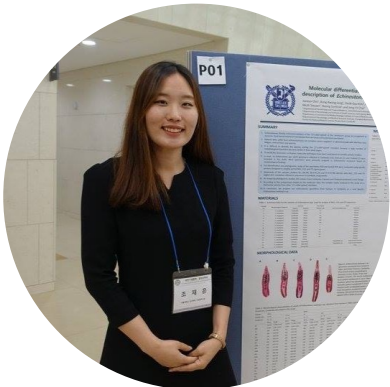


Jeonghwan Kim Managing Director

More than 20 years of experience in the field of fertilizers

High understanding of ginseng farming

Consultation for individual farms and provide customized solutions



Jaeeun Cho Researcher

MS degree in Medicine

Published 26 SCI papers

7 years of R&D experience

Bio-fertilizer development



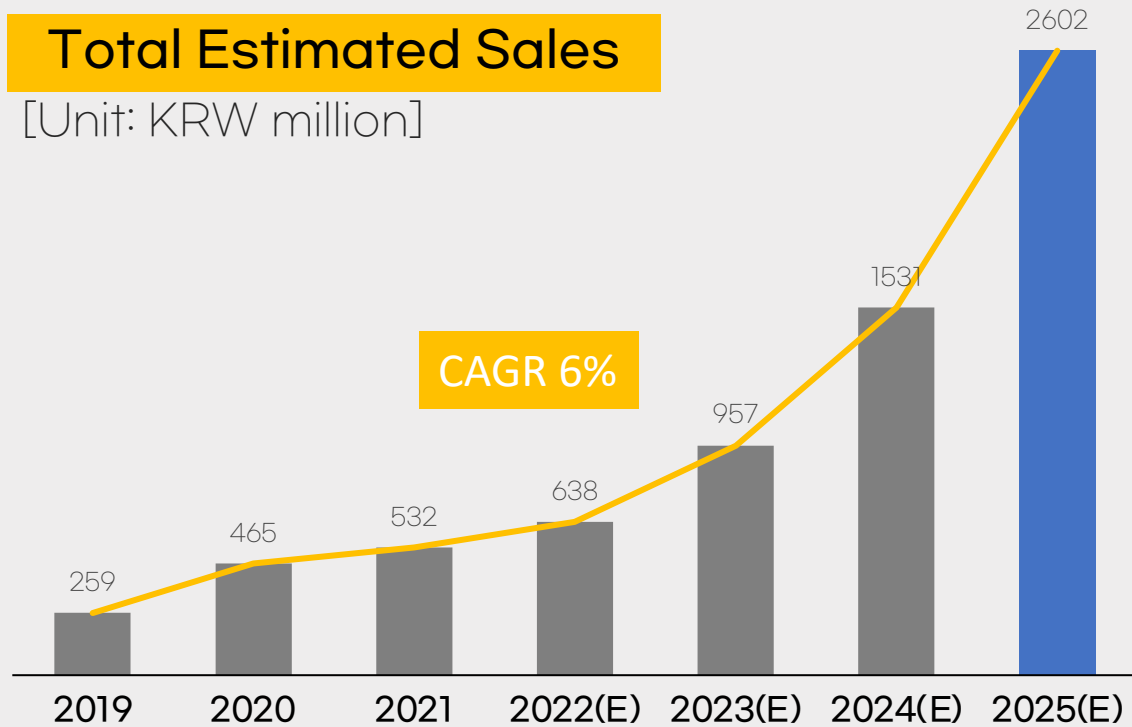
Dr. Sung-Dong Kim Advisor

Advises on fertilizer development using new materials

Our Growth

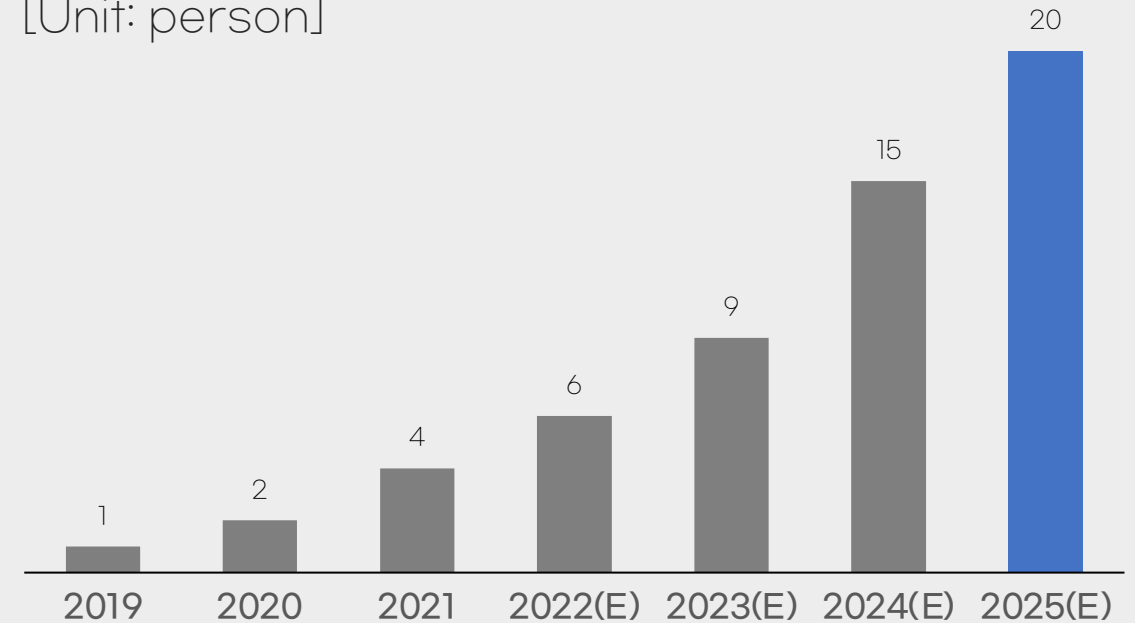
Total Estimated Sales

[Unit: KRW million]



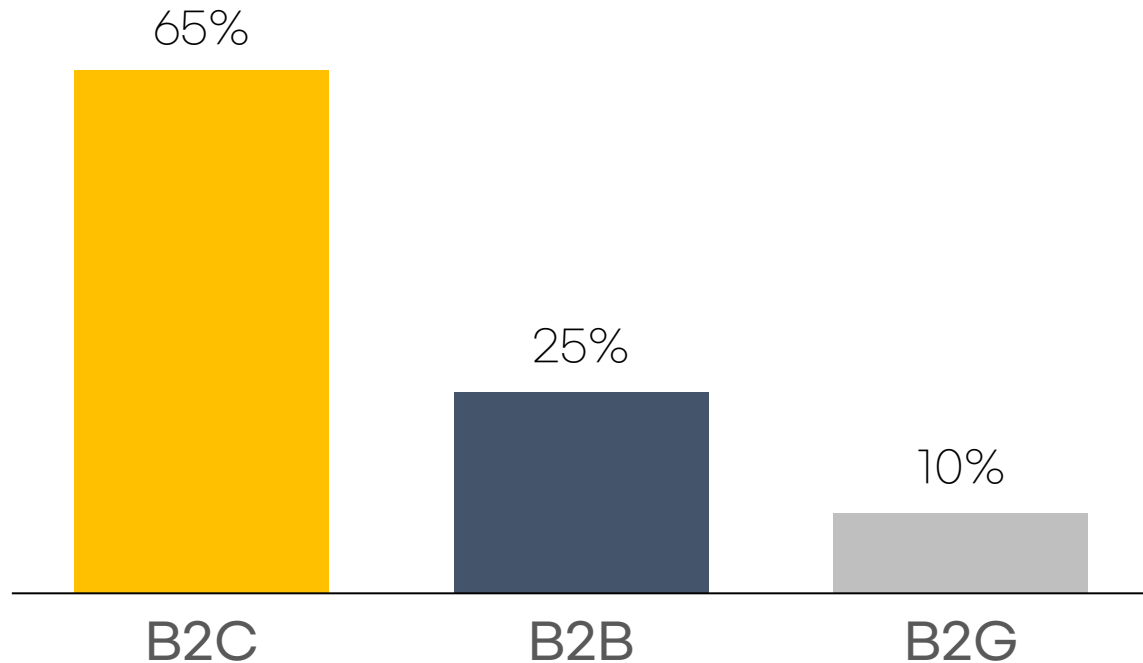
Expected number of employees

[Unit: person]



We aim to increase our market share through various marketing strategies and R&D to increase profit creation, approximately KRW 2.6 billion in total sales, and to create 20 or more jobs by 2025.

Marketing Strategy



We are increasing our sales through direct sales to agricultural cooperatives, as well as NH and commercial vendors. We are also conducting YouTube marketing, which is still small but is expected to grow rapidly.

B2C farmhouse direct

- 680 farms, including 389 ginseng farms, which are major customers
- Providing farmers with good quality and overall solutions for crops

B2B agricultural association

- Under contract with about 200 companies
- Provide quality and product safety to NH(zero hazard)
- Quality and reasonable delivery price are provided to agricultural cooperatives and marketers

B2G government-funded projects

- In order to preserve the soil environment and promote sustainable agriculture, the Korean government is promoting a project to support farmers with a portion of the cost of purchasing eco-friendly agricultural materials.

Future Plan

Eco-friendly fertilizer for outdoor golf courses

By using eco-friendly fertilizers, it is possible to reduce the use of pesticides and protect the health of those who spray pesticides and golf course users.

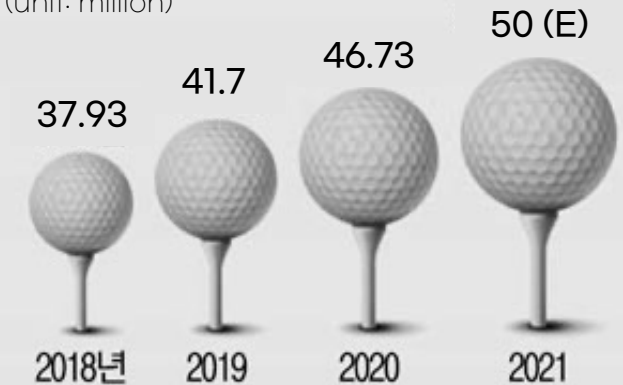
It can also protect the environment by preventing pesticides from entering the surrounding rivers and groundwater.

We are promoting organic agricultural chitin soil as a golf course supply product.

Chitin-Soil has no odor and is an excellent prebiotic for preventing pests and diseases. It can be used for various purposes and times as it is in granular and liquid form, and it helps plants grow and is not harmful to the human body.

Population of country club users in South Korea

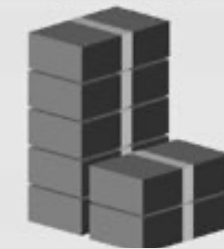
(unit: million)



Golf Market Size in South Korea

556 million USD

5.14 million



Golf industry
Size



Golf Population
(Including Indoor Golf)

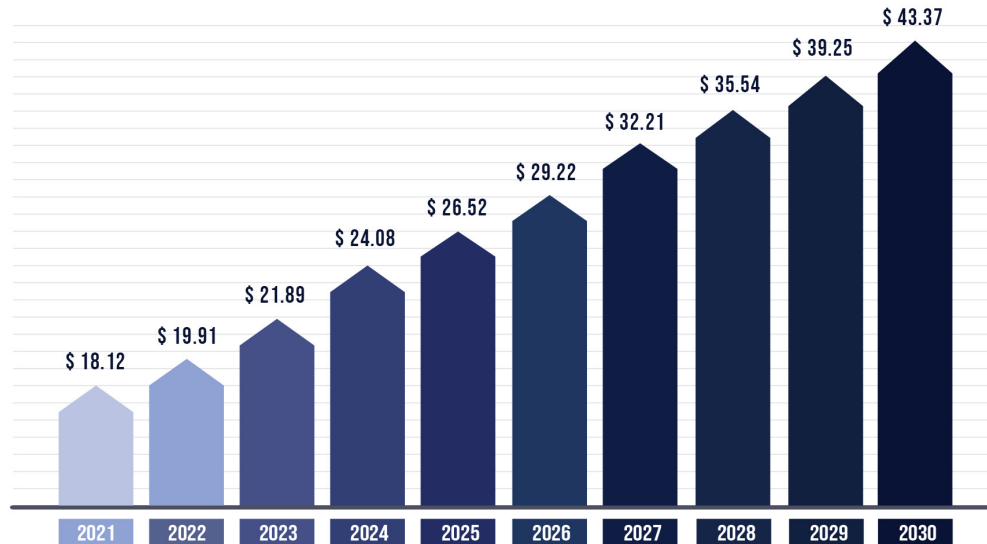
[Source: Korea Golf Course Management Association,
[Korea Leisure Industry Research Institute]

Future Plan

Eco-friendly fertilizer for Smart Agriculture

PRECEDENCE
RESEARCH

SMART AGRICULTURE MARKET SIZE, 2021 TO 2030 (USD BILLION)



Smart Agriculture that can produce more than 10 times the productivity of conventional soil are attracting great attention in many countries. With this background, we plan to develop fertilizers for nutrient solution cultivation in smart farms through light weight and high quality.

While the proportion of agriculture occupied by smart farms is increasing, **our Hwang Geum Dong is very suitable for smart farm systems that grow indoors and apply fertilizers through machines.** Hwang Geum Dong Plus, which is being upgraded to protect indoor growing facilities, also has the potential to expand its sales channels.

Project Calendar

	2022		2023				2024	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
factory expansion								
Production facility improvement								
Ginseng cultivation experiment								
Technology stabilization								
Export market development								
Making inroads in the export market								

Financial Plan

	2022		2023				2024	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Agrifood cloud funding								
Government-funded projects								
R&D								
Loan								

Our Goals



Since our products can increase the production of eco-friendly agricultural products, the income of farmers through the production of eco-friendly agricultural products can increase.



It is possible to improve the health of producers and consumers, and transition to sustainable agriculture. In addition, chemical pesticides and fertilizers can be substituted through the development of eco-friendly agricultural technology using various biological resources.



It can increase jobs for the young generation in the primary industry, agriculture, and contribute to balanced regional development.

Thank You



농업회사법인 (주)솔바이오

Phone CEO +82-10-4715-0194 / Email solbio@naver.com