



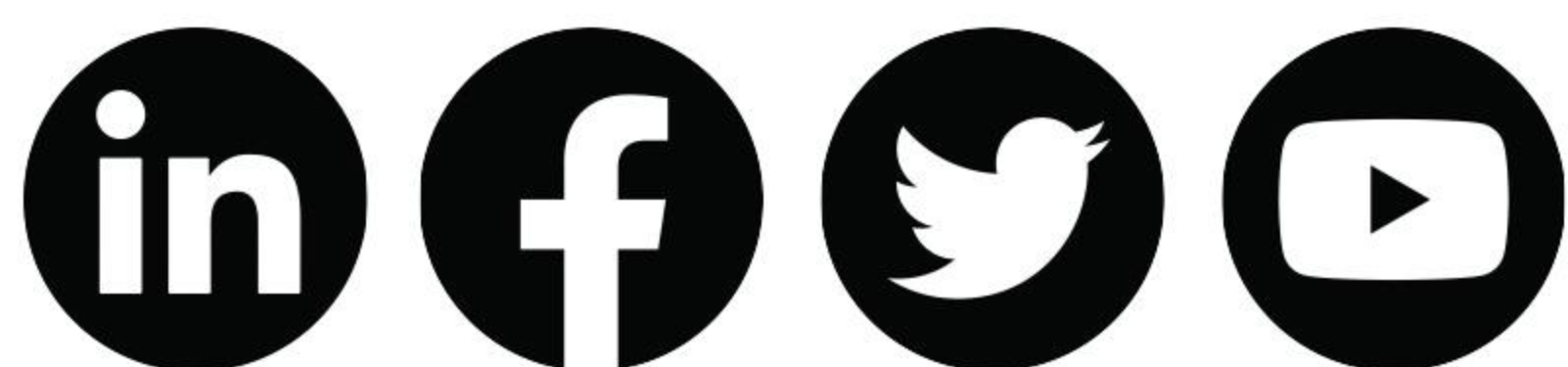
茵塞普科技  
INSPRO SCIENCE  
LIMITED

INSPRO SCIENCE LIMITED (INSPRO) is an innovative high-tech social enterprise that aims to integrate insect-based bioconversion, industrial automation, climate control, digital twins, and AI technologies to provide a set of standardized and modularized turn-key solutions to effectively solve social issues such as the recycling of organic wastes and the shortage of protein supply.

INSPRO has a team with more than 10 years of international management and R&D experiences. Most team members graduated from world-famous universities in China, the United States, Finland, Australia, and New Zealand.

RECYCLE PROTEIN FOR THE WORLD

为世界提供可持续蛋白



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# 1 CORE COMPETENCES



固高科技  
GOOGOLTECH

## Innovative Industrialized Insect-based Bioconversion System

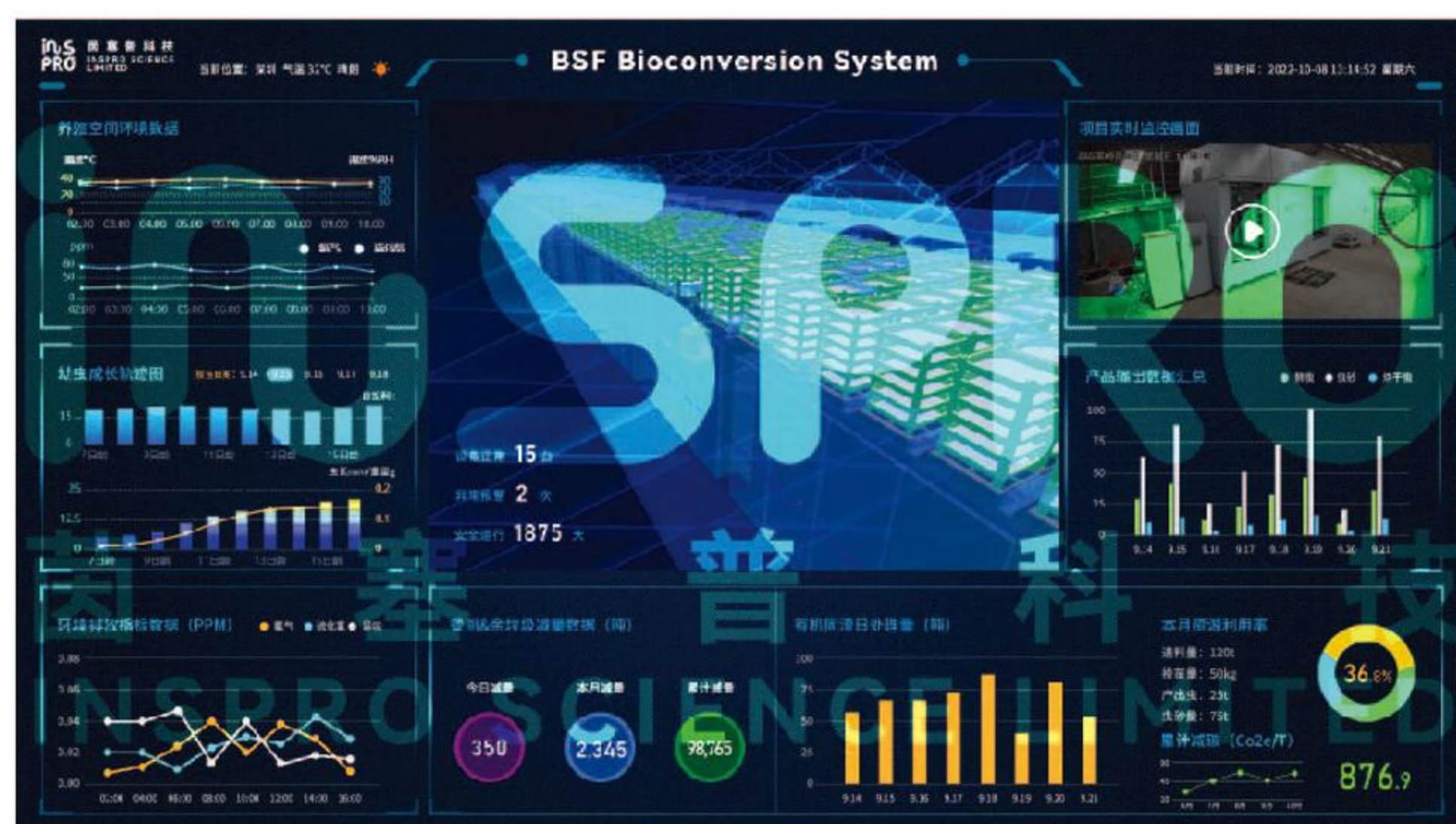
Leveraging GoogolTech's Leading Industrial Automation and Industrial Internet of Things technologies, we can rapidly replicate and deploy our modularized and factory-prefabricated turn-key solutions globally. With our solutions, it is able to realize the green recycling of organic wastes, and produce sustainable economic benefits.

## Innovative Insect Biotechnology and Operation Management Team

Our team has more than 10 years of practical experiences on microbial pretreatment technology, superior breeding (not genetic modification), stable and large-scale egg production, industrialized rearing, nutrition demand analysis, disease prevention, and product deep processing.

## Internationalized Product Sales Channels

Our team has more than 10 years of brand and market management experiences. Meanwhile, our company has FDA registration for export to the United States, with which we can sell Black Soldier Fly Larvae (BSFL) as feed and frass as fertilizer.



## Automated Lifecycle Management

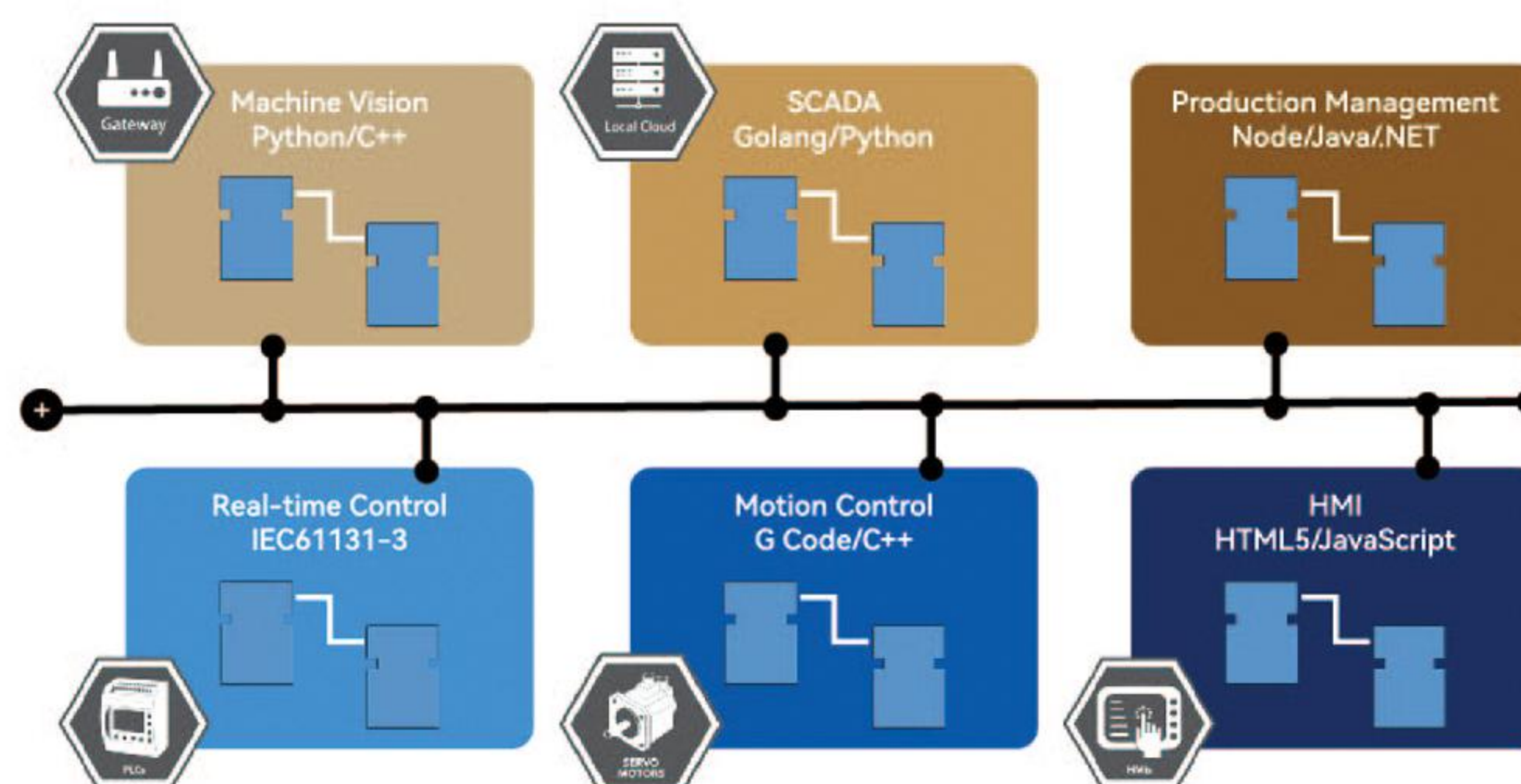
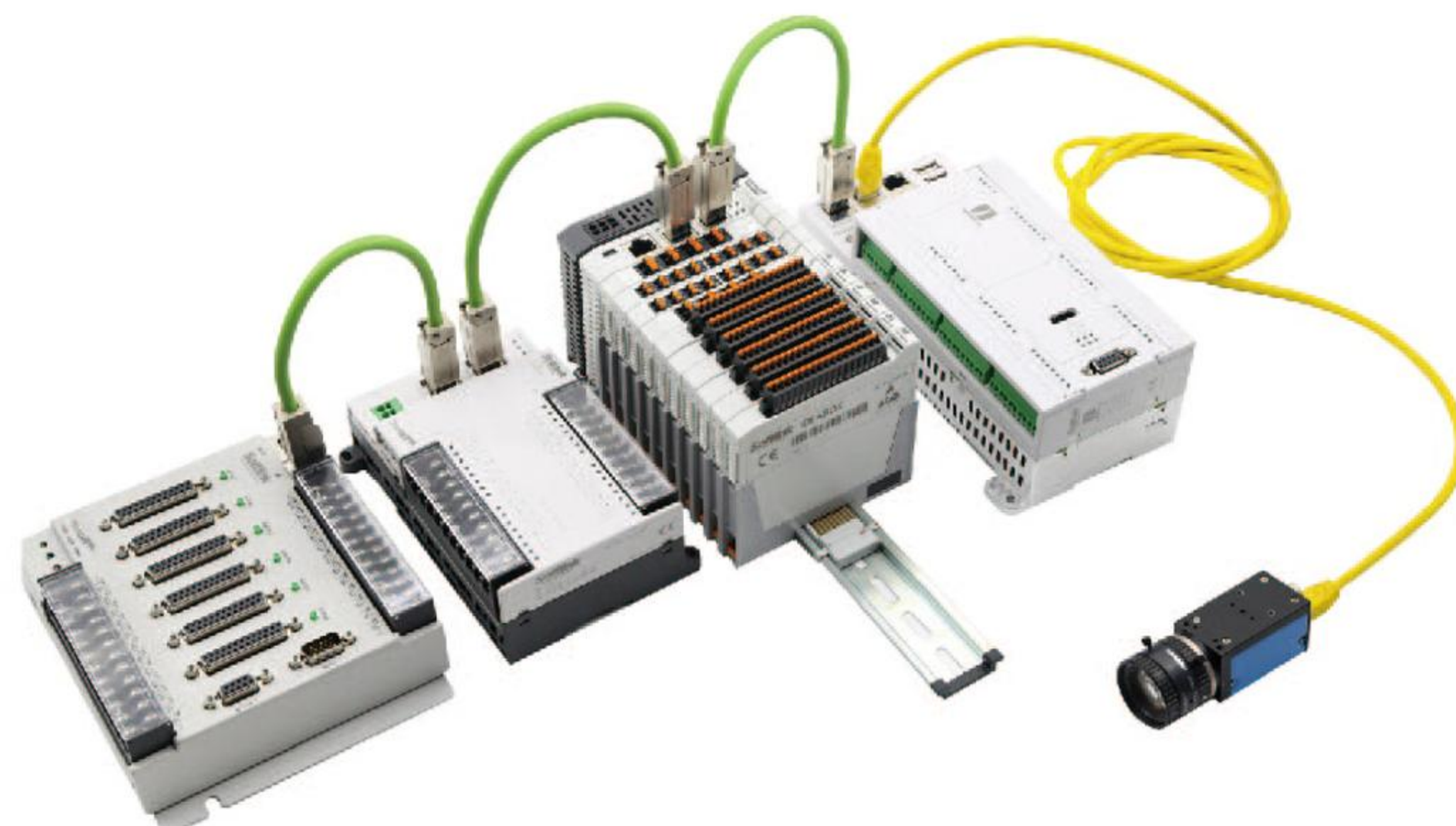
The first-principle modelling and dynamic simulation are carried out using digital twins technology to realize the system's dynamic lifecycle management. As a result, the system can automatically distribute, feed, and harvest the larvae without human intervention.

## Independent Closed Structure Design

By adopting independent closed structure design and rearing BSF in groups according to their growth characteristics, it is able to effectively shield the adverse effects of external changes on the rearing environment. Moreover, the full thermal insulation and vertical farming technologies can effectively increase the rearing area.

## Automated Climate Control

Based on BSFL's characteristics, by timely adjusting the climate controller's operations according to the accurately collected rearing parameters, including lighting, temperature, humidity, VOC, and so on, it is able to precisely maintain the optimal growth conditions for BSFL.



## Open Automation Systems

Using the cutting-edge IEC 61499 international standard to deeply integrate OT, CT, and IT technologies to realize the closed-loop of industrial Internet and edge computing.

## Edge-Cloud Collaborative Computing

Leveraging heterogeneous edge-cloud computing architecture to support INSPRO's automation systems' rapid and iterative development.

## High-Speed P2P Ring Networking

The gLink fieldbus technology is well applied to realize high-speed interconnection, real-time response, and synchronous control among field devices.

# INDUSTRIALIZED INSECT BIOCONVERSION SYSTEM



## Harmless Treatment

In order to meet the environmental protection requirements, harmless treatments are conducted on the BSF bioconversion modules. In particular, a fresh air ventilation system is set up to uniformly collect, purify, and treat the exhaust gases generated in the rearing process to ensure BSFL's continuous and stable growth.

## Panoramic 360° AR Inspection

The 360° AR sensing, video fusion, and 3D visualization technologies are integrated to realize the panoramic control and routine inspection of the system.

## Government Regulation on Data

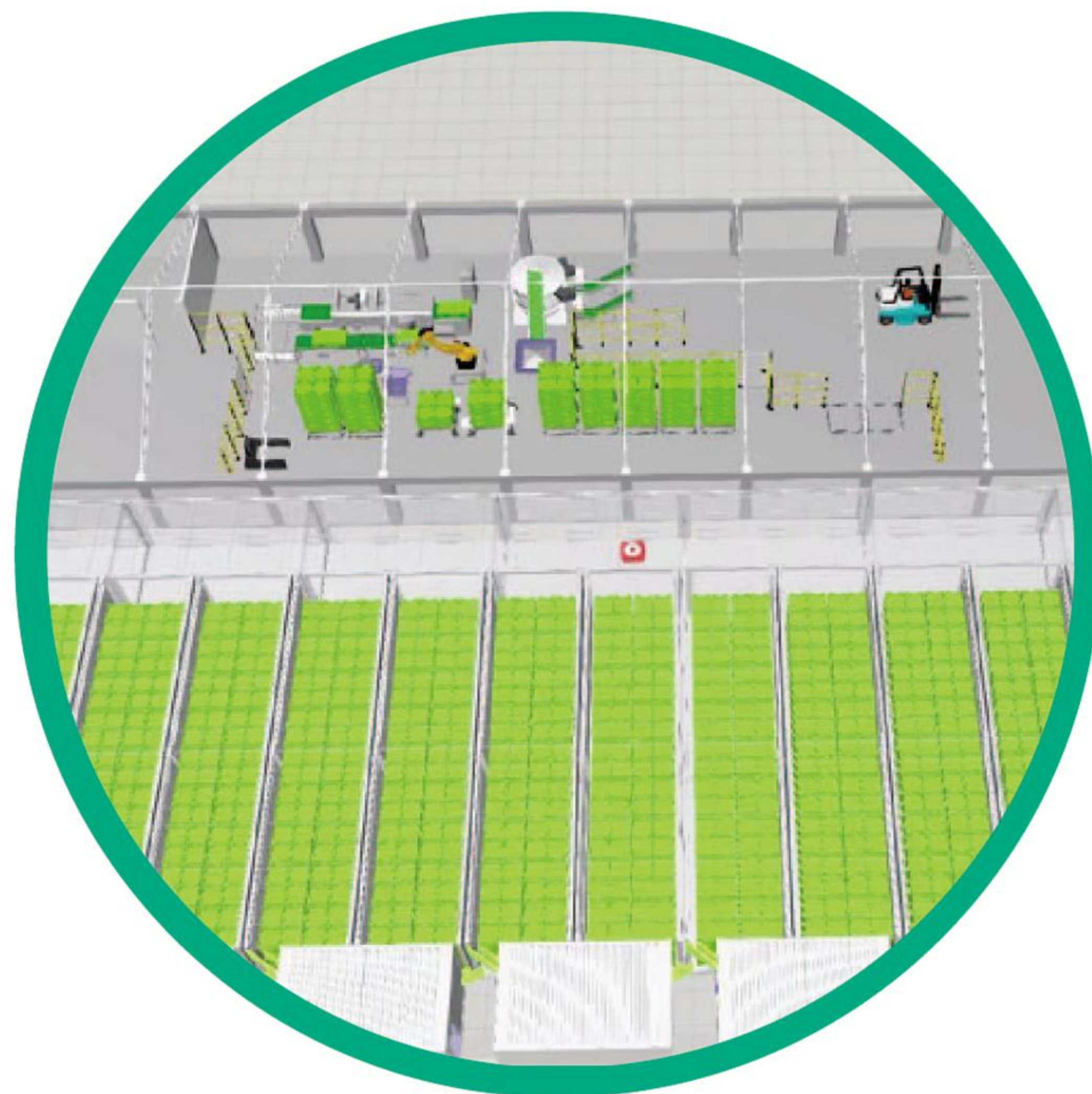
The government can monitor the data of environmental emissions, food waste reduction amount, and organic waste resource utilization rate in real time.

## Carbon Footprint Accounting

The dynamic carbon footprint accounting model built for the BSF bioconversion process in facilities can help to reduce carbon emissions and achieve sustainable development.



# 3 ADVANTAGES OF INDUSTRIALIZED INSECT BIOCONVERSION SYSTEM



- **Modularized Short Construction Time**

After foundation construction, it usually takes about 3-4 months to complete our system's installation and commissioning.

- **Vertical Small Footprint**

Our vertical rearing method can significantly save land area and reduce construction costs compared to traditional ground rearing methods. It also increases the rearing capacity per unit area by more than 10 times.

- **Enclosed No Secondary Pollution**

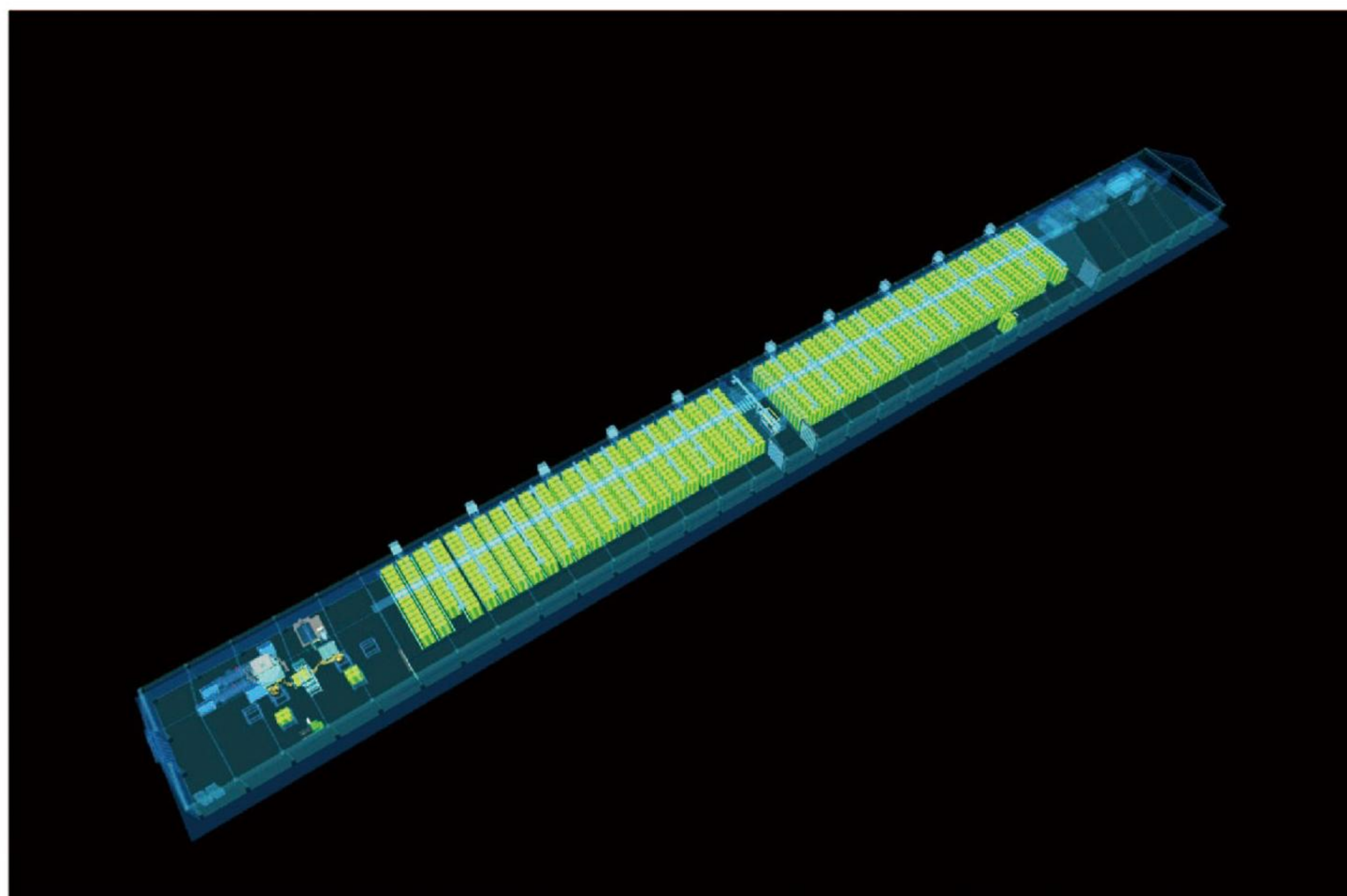
Our industrialized BSF bioconversion system adopts fully enclosed management, where no secondary pollution will be caused.

- **Automated Safe and Stable**

The fully automated BSF bioconversion system can significantly reduce various costs and make the entire rearing process much safer and stabler.

- **Data-Driven Real-time and Synchronized**

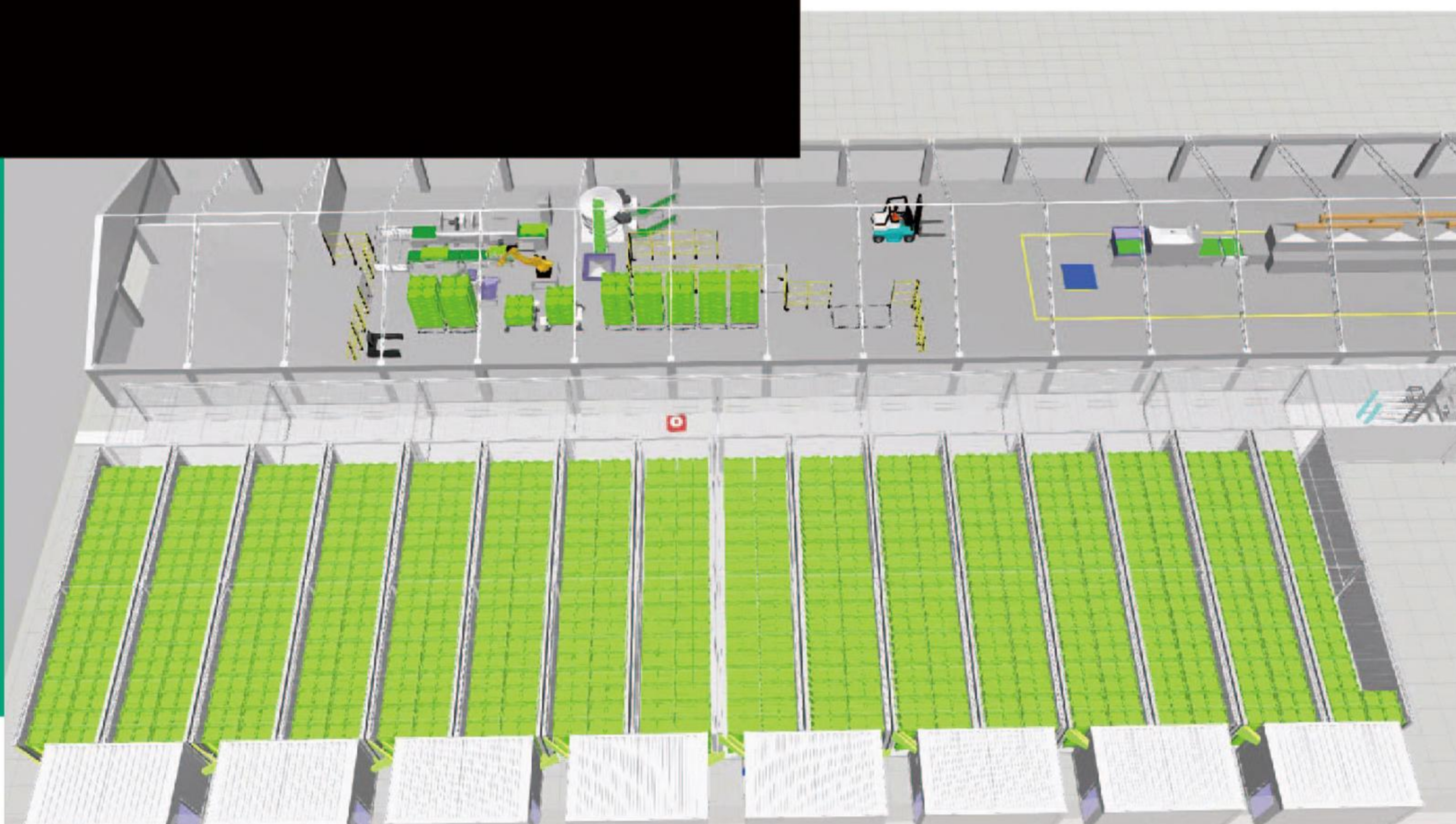
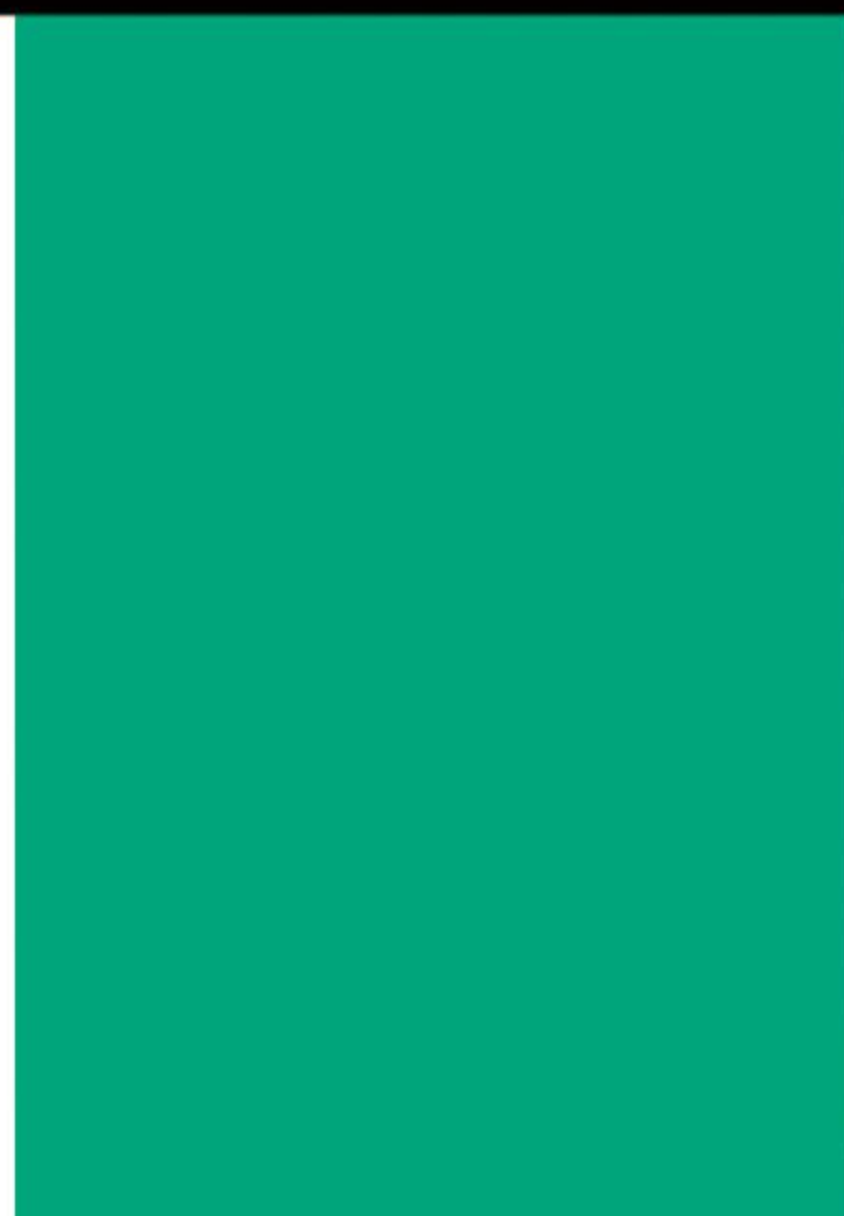
Our visualization system displays real-time rearing data and seamlessly integrates with government platforms to meet various regulatory requirements.



# 4 SEMI-AUTOMATIC & FULLY-AUTOMATIC SYSTEM

← Semi-Automatic System

↘ Fully-Automatic System





# 5 SOLUTIONS



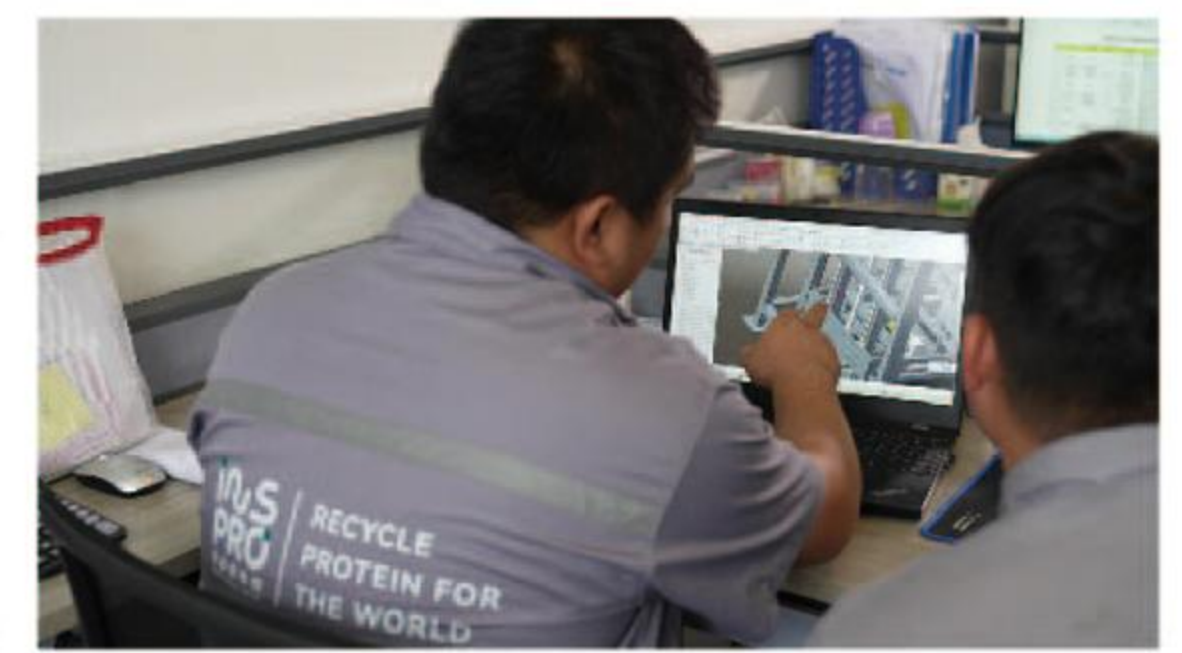
## System Solutions:

Automated Rearing System  
Breeding Equipment  
Processing Equipment



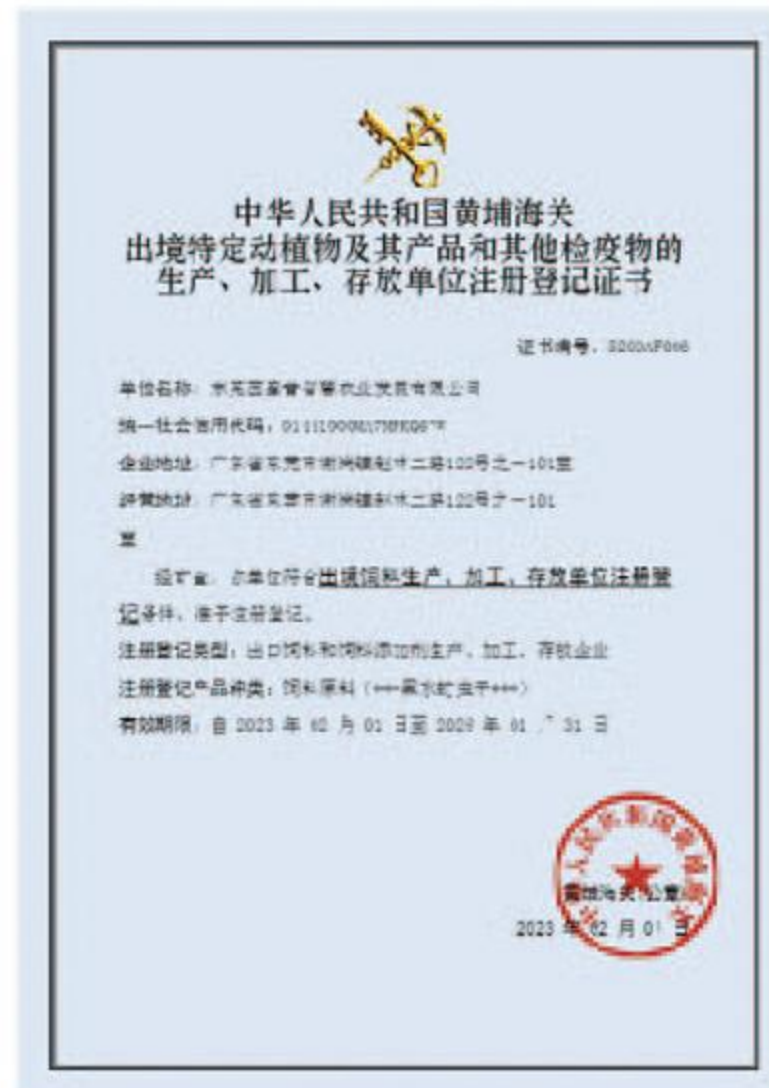
## Stable Product Supply:

Microwave Dried BSFL  
Low Temperature Dried BSFL  
Frozen Boiled BSFL  
Organic Fertilizer



## Technical Training Services:

System Training  
Equipment Usage  
Technical Guidance



# 6 OWN BRAND & CERTIFICATIONS

FDA Registration  
Export Certification  
Test Reports

## U.S. FDA Registration

We have completed the FDA registration, which allows our products to enter the pet food chain in the United States.

## Export Qualification

We are the first company with full qualification to export microwave dried BSFL overseas in Dongguan, China. We are establishing the export standards for our governments.



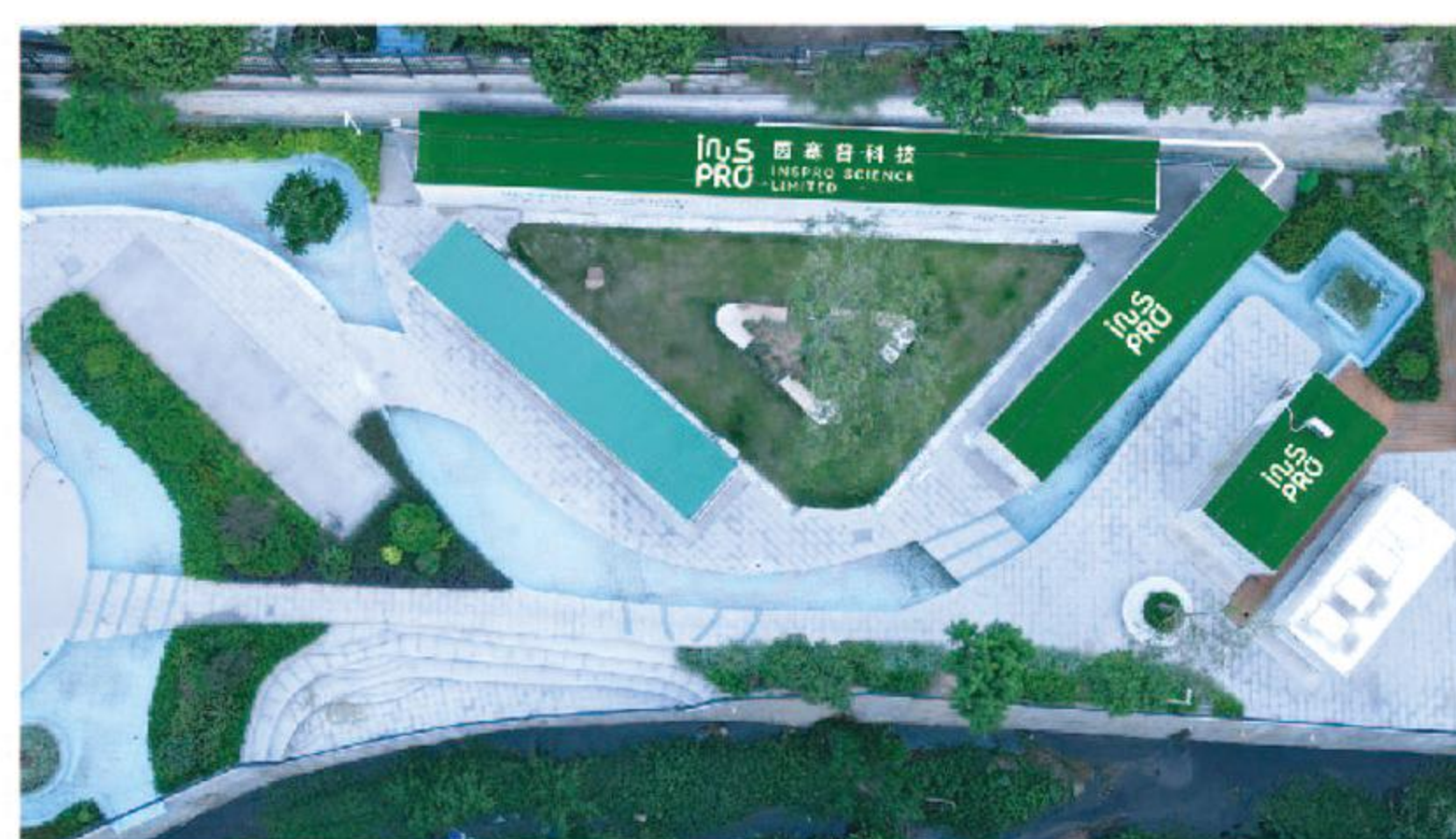
## Amazon Best Sellers

Our main product has been ranked first in category reviews on Amazon with top three sales, far surpassing domestic brands in the United States.

## Quality Assurance

We have implemented strict quality control and management standards on insect sources, processing procedures, and personnel operations to ensure our export products' outstanding quality.

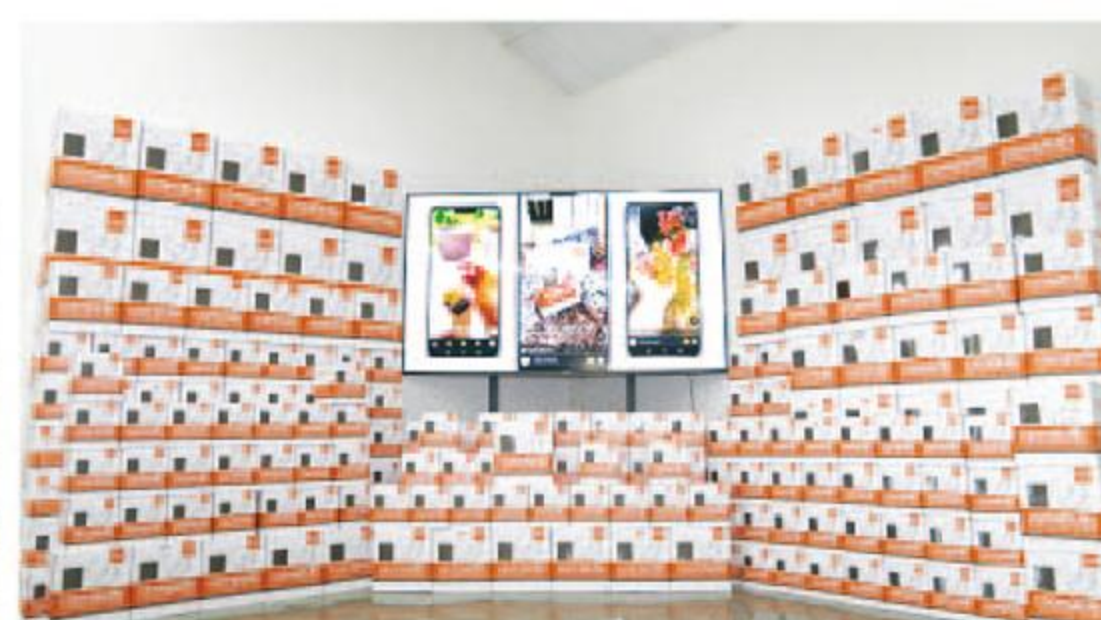
GoogolTech is the 1st high-tech company in Asia Pacific region specializing in R&D, production, marketing, and support of motion controllers and controller based systems. GoogolTech is the core shareholder of INSPRO, and the two companies have reached a long-term strategic collaboration on the research and development of insect-based bioconversion systems. GoogolTech and INSPRO have jointly built a "Green Ecological Experimental Base" in GoogolTech Park, where the latest industrial automation, climate control, and digital twins technologies are applied to continuously and iteratively carry out research and development in artificial light sources for breeding, modularized system design, and artificial intelligence rearing technologies.



# 7 PILOT PROJECTS



INSPRO has established its first Greater Bay Area circular agriculture pilot project in the Dongguan City, which covers an area of 3.9 hectares and contains a BSF breeding center, a BSF bioconversion center, a product postharvest processing center, and a circular agriculture exhibition hall. Phase I of the pilot project can handle 20 tons of organic waste residue per day, while Phase II can achieve the maximum 50 tons/day treatment capability and produce over 3,600 tons of fresh BSFL. **This pilot project also serves as the BSF hatchling supply center and export processing center for the Greater Bay Area markets.**





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## AMAZON BEST SELLERS & BSFL SUPPLIER FOR FAMOUS CHINESE ANIMAL FEED COMPANIES



CCTV

CMG  
中央广播电视总台

人民日报

求是  
QIUSHI新华社  
XINHUA NEWS AGENCY

中国青年报

中国新闻社  
CHINA NEWS SERVICE

南方日报

鳳凰衛視中文台



The CCTV program "Focus Interview·Dream Chasing the Greater Bay Area" broadcasted an exclusive interview with Elvis Yu, the founder of INSPRO, On May 17th, 2021.

In 2022, Phoenix News aired an interview with Elvis Yu in the documentary "Hong Kong People's Entrepreneurship in the North 5": INSPRO is committed to providing sustainable protein for the world.



On April 22nd, 2023, Elvis Yu introduced INSPRO to the visiting delegation from the Hong Kong Special Administrative Region (HKSAR) government, led by Chief Executive John Lee.

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## WIDESPREAD MEDIA COVERAGE



Hong Kong SAR Government Greater Bay Area Express  
Episode 3 - "Insects from Organics"

FINANCING  
NEWS

10

In March 2023, INSPRO has successfully completed a strategic financing round. Our investors include the Clear Water Bay Fund Phase II (initiated by Dr. Zexiang Li, HKUST Professor and co-founder of Googol Technology and DJI, and jointly invested by leading market-oriented private equity investment funds and large technology companies), the personal and public funds of Dr. Ping Keung Ko's (HKUST Professor and co-founder of Silicon Federation International Venture Capital), and Googol Technology Co. Ltd. (a listed company in Shenzhen GEM).