



茵塞普科技
INS PRO SCIENCE
LIMITED

RECYCLE PROTEIN FOR THE WORLD

为世界提供可持续蛋白

How Does The Data-driven Insect Bioconversion System Adapt to Demand of Feed Chain Operators?

Recycle Protein for the World
为世界提供可持续蛋白



About INSPRO

INSPRO is an innovative high-tech social enterprise that aims to integrate **Entomology, Automation, Climate control, Digital Twins, and Artificial Intelligence technologies** to provide a set of **standardized and modularized turn-key solutions** for insect industry.

Named to **Fortune Magazine's 2023 list of China's Most Socially Impactful Startups.**



Elvis Yu

Founder & CEO

- Master degree from HK PolyU;
- Serial Entrepreneur with over 10-year experiences in management;
- Interviewed by CCTV, Phoenix TV, HK Economic Journal, etc.



Lucas Pang

Co-founder & CTO

- Ph.D. from the University of Auckland, New Zealand;
- IEEE senior member, senior engineer;
- Vice chair of the IEEE-IES Technical Committee on Industrial Informatics.



Amy Tin

Co-Founder & COO

- Graduated from UIBE;
- More than 10-year experiences in brand and marketing;
- Used to manage a sales company with over 200 employees.



Gavin Gao

Partner & Business Director

- Graduated from Xidian University;
- 8-year experiences in large-scale engineering project management;
- 22-year experiences in software and Internet industries.

Strategic Investor: Googol Technology Group Ltd

Company Profile

- Founded in 1999 by 3 internationally renowned scholars and experts in the fields of robotics, microelectronics, and motion control from the Hong Kong University of Science and Technology (HKUST).
- 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.



Milestones



GoogolTech HK - 1999



GoogolTech SZ - 1999



GoogolTech RI - 2011



GoogolTech DG - 2015

Founders



Prof. Zexiang Li
IEEE Fellow

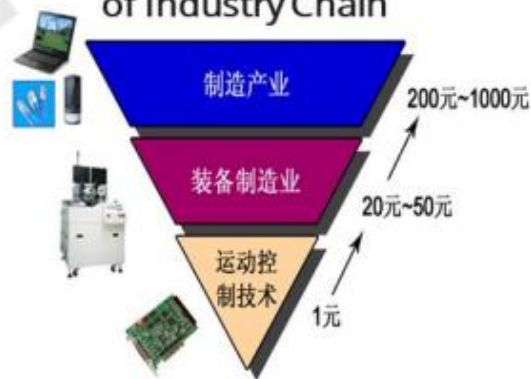


Prof. Ping Keung Ko
IEEE Fellow



Prof. Hong Wu
Motion Control Specialist

Multiplication Effect of Industry Chain



Awards:

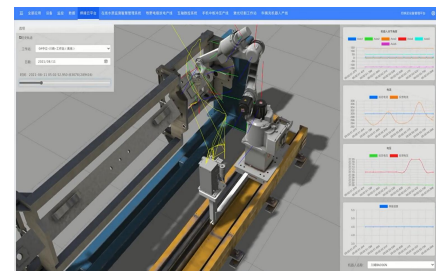
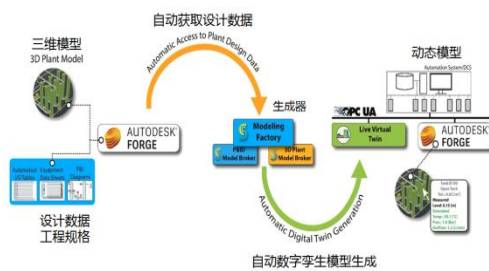
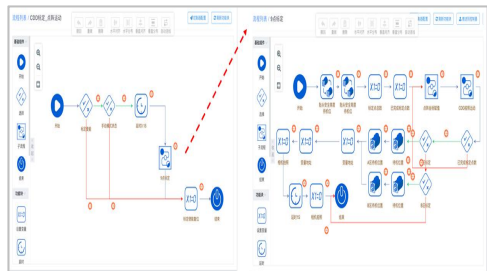
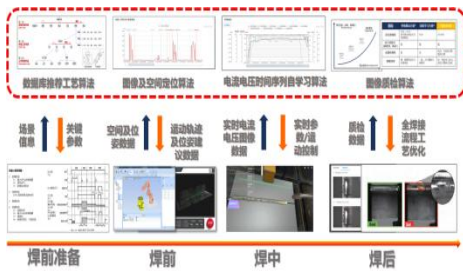
- 2020 Top 10 Global Technology Solution Providers
- China's Most Competitive Robot Controller Brand
- Shenzhen's Top 70 Innovative Enterprises (ranked 27th)
- Listed in Shenzhen GEM

Control and Network Factories of the Future

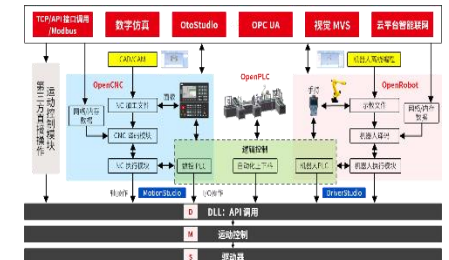
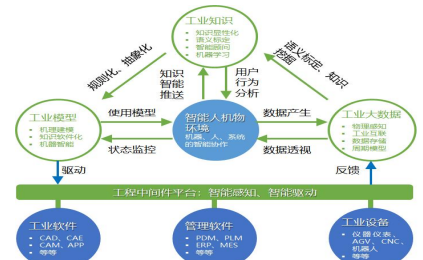


Enabling Technologies

Analysis



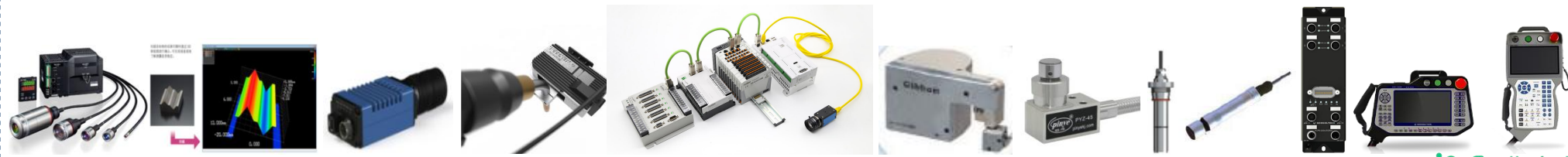
Exchange



Decision

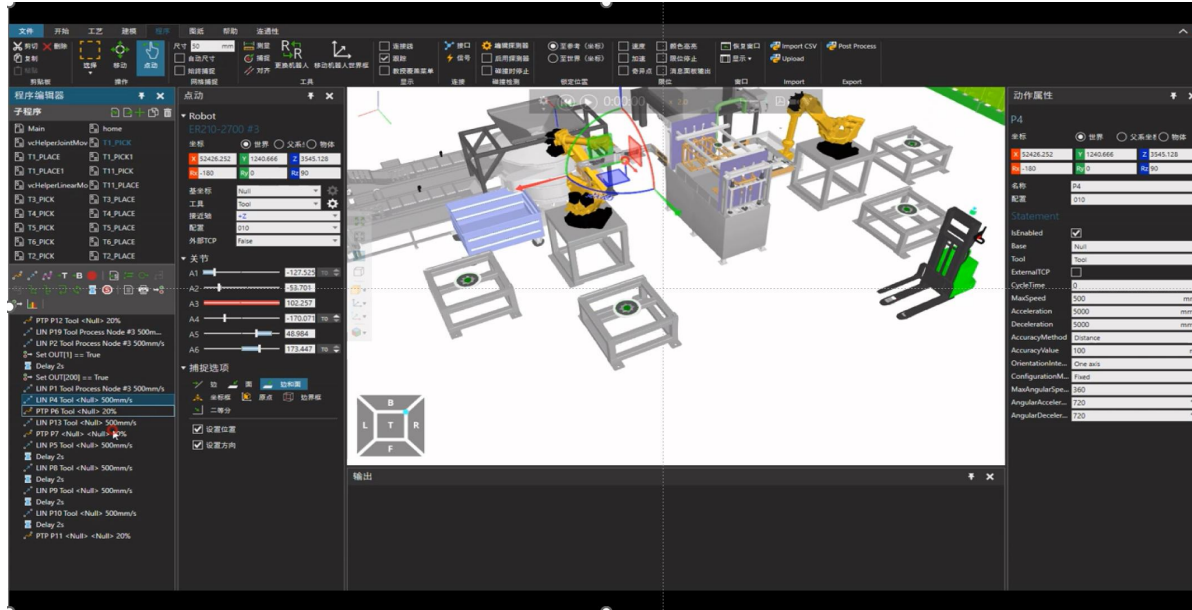


Perception





Visual Production Line & Data-driven Management Platform



Digital Twin Technology

- During the engineering phase, after each component equipment's mechanical design, its digital twin model will be created.



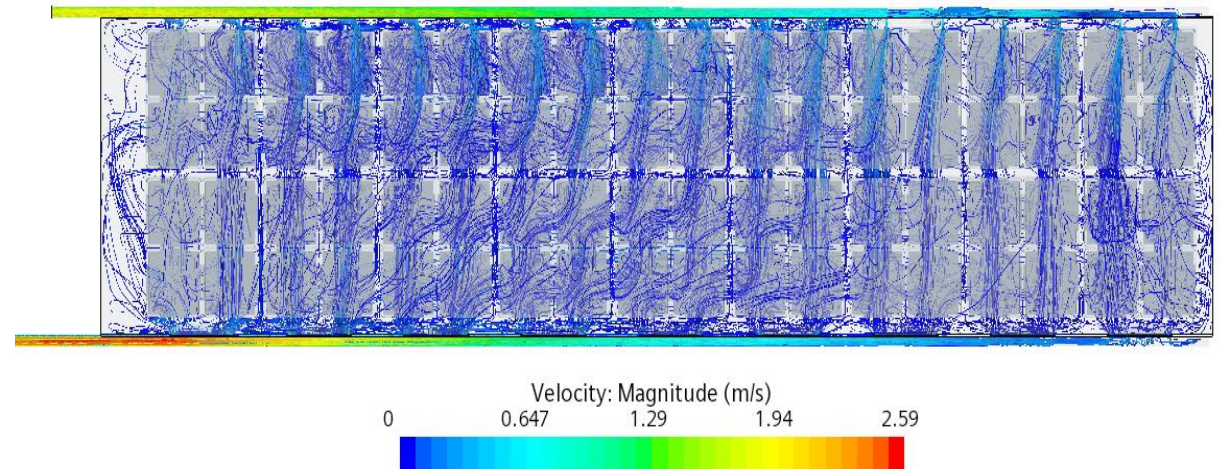
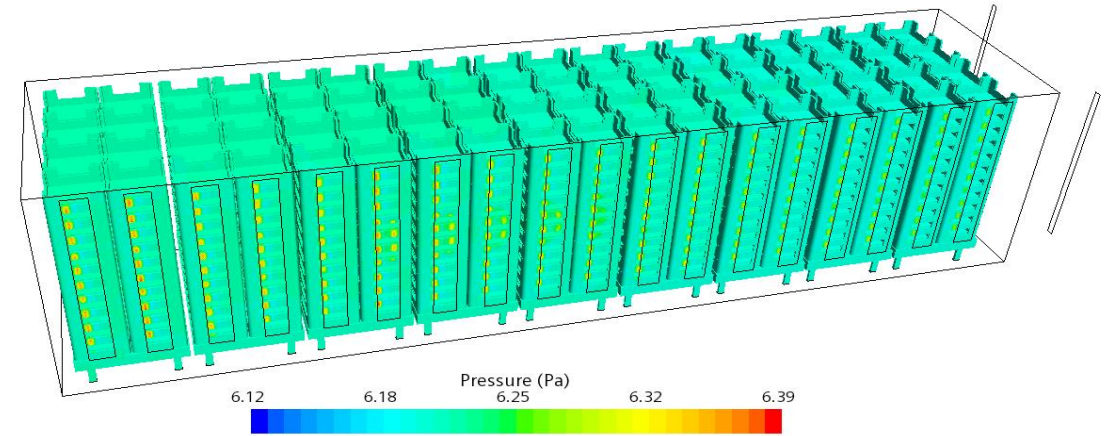
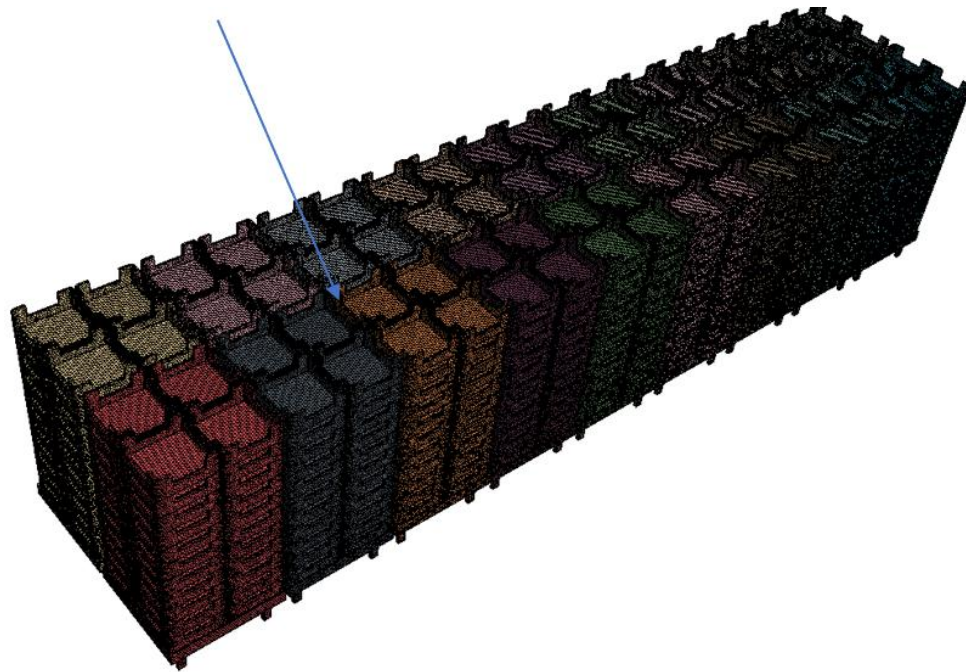
Data-driven Management Platform

- Real-time statistics can be linked to government regulatory platforms and provide statistics on carbon emissions.



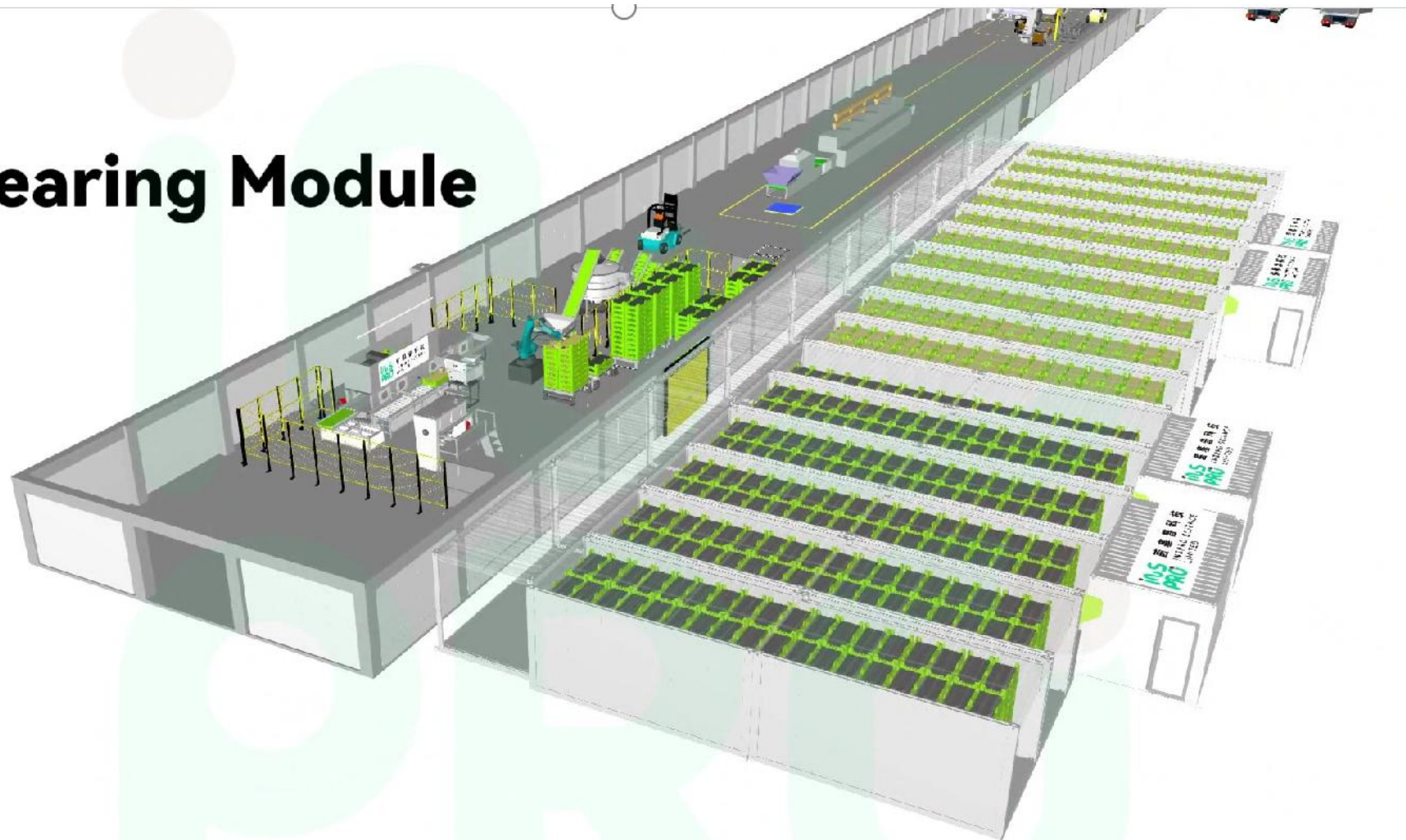
Dynamic Climate Adjustment Optimizes Insect Growth

- Based on BSFL's characteristics, a heating, ventilation, and air conditioning system for BSFL rearing has been specifically designed and implemented.





Rearing Module





Involvements in International Standards


IEEE P2992 – Data Expression, Exchange, and Processing in Smart Agriculture

IEEE SA | P2992 – Data Expression, Exchange, and Processing in Smart Agriculture

STANDARDS ASSOCIATION

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WELCOME TO THE IEEE P2992 - DATA EXPRESSION, EXCHANGE, AND PROCESSING IN SMART AGRICULTURE WORKING GROUP WEBSITE

Sponsoring Society and Standards Committee: IEEE Industrial Electronics Society/ Industrial Electronics Society Standards Committee (IES/IES)

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Chair
Hiroaki Nishi, west@sd.keio.ac.jp

Vice Chair
Rick Zedde, rick.vandezedde@wur.nl


IEEE P2805.2 – Data Acquisition, Filtering and Buffering Protocols for Edge Computing Node

IEEE SA | P2805.2 Data acquisition, Filtering and buffering Protocols for Edge Computing Node

STANDARDS ASSOCIATION

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Sponsoring Society and Committee: IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee (IES/IES)

Title: Data acquisition, Filtering and buffering Protocols for Edge Computing Node

Scope: This standard specifies the protocols used by the edge computing node of buffering, filtering and

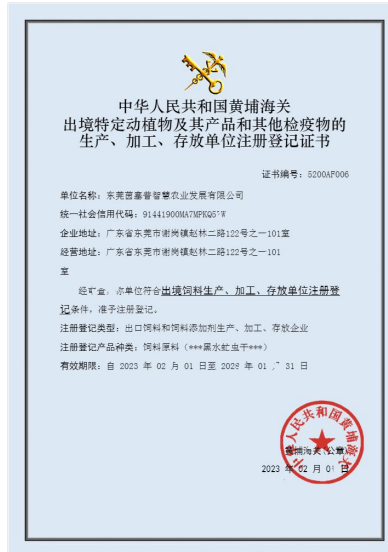
WG OFFICERS

Chair
William Dai, w.dai@ieee.org

Vice Chair
Sha Wei, wei@cs.csi.cu



Pilot Plant running by INSPRO with over ONE thousand tons dried larva annually





Adapt to Demand of Feed Chain Operators



WASTE TREATMENT COMPANY
(Municipal foodwaste; manure, etc)

Insect as Feed


Organic Slurry →



Insect Rearing Company




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Animal Feed



Amino Acid Fertilizers



FOOD PROCESSING COMPANY
(Wine Lees (Beer, Baijiu, etc.))

Insect as Food

Low-value by products →



Insect Rearing Company




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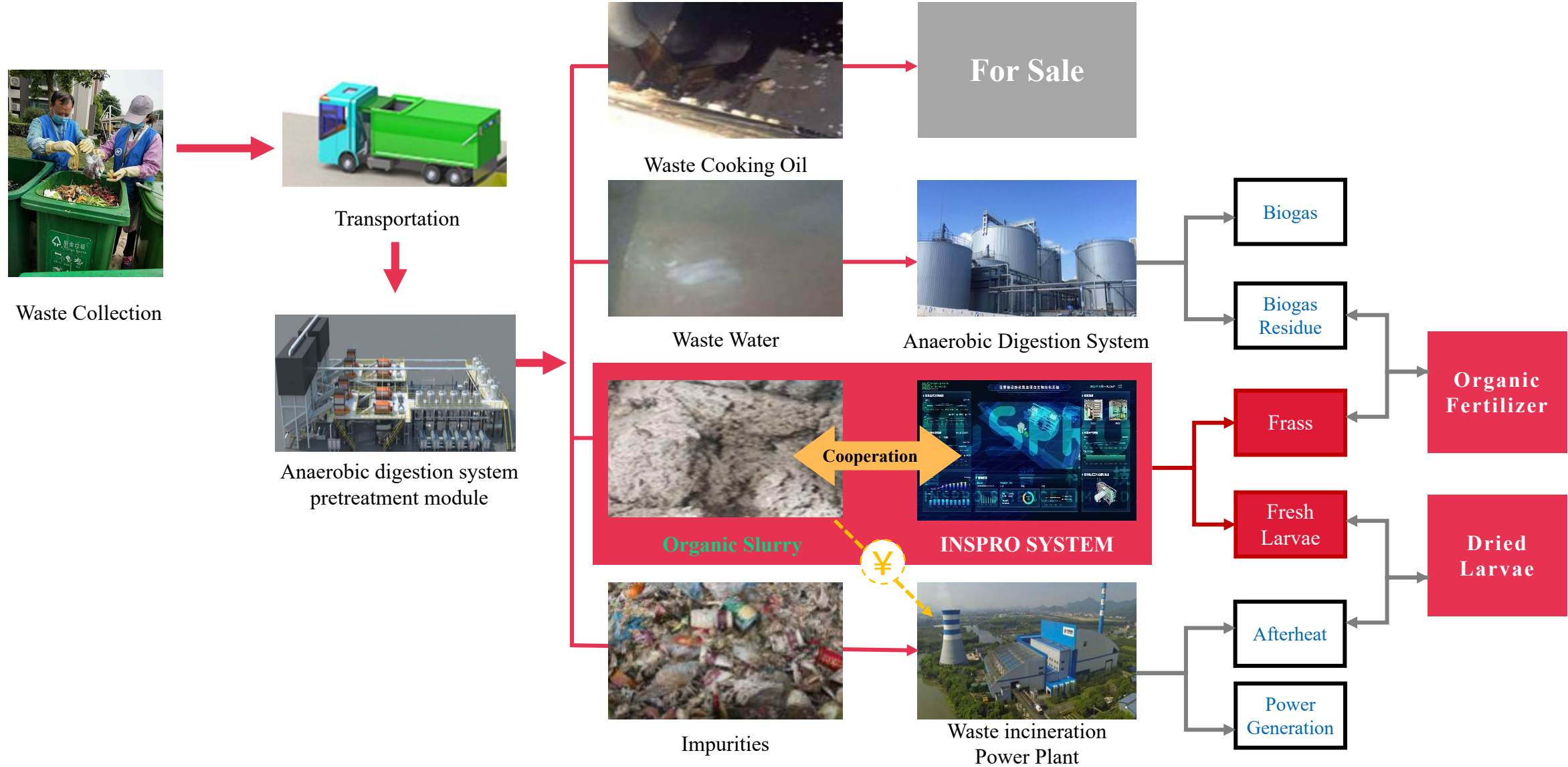
Pet Food



Human Food



Organic Waste Utilization with High Value Insect Products and Low Carbon Emissions





USDA Taking Actions on Food Waste Reduction and Recycling

Latest

JUL 26, 2023, 09:00 ET

USDA and Cooperators Boost Reduction and Re-utilization of Food Loss and Waste in Asia

The Food Waste Reduction and Nutrient Recycling Technology Forum was held in Park Hyatt Hotel in Guangzhou, China on July 17, 2023 to introduce US...



News link:

<https://www.prnewswire.com/news-releases/usda-and-cooperators-boost-reduction-and-re-utilization-of-food-loss-and-waste-in-asia-301886255.html>



↑
INSPRO CTO
Dr. Lucas Pang

↑
Director of Agricultural Trade Organization in Guangzhou
JonAnn Flemings





INSECTS TO FEED THE WORLD

Singapore 2024

AFFiA
ASIAN FOOD AND FEED INSECT ASSOCIATION

Join us in Singapore in 2024 for the insect sector's largest event



INSECTS TO FEED THE WORLD
Singapore 2024



ASIAN FOOD AND FEED INSECT ASSOCIATION

Key Dates:

- ❖ **Conference Dates: 19-22 June 2024**
- ❖ **Abstract submission deadline: 19 January 2024**
- ❖ **Early bird registration deadline: 7 April 2024**

Registration is open now!



What to Look forward to at IFW 2024

- ❖ **Insight into Asia's thriving insect sector**
- ❖ **Access to Singapore's world class innovation hubs and investment opportunities**
- ❖ **With over 500 expected attendees: unparalleled networking and collaboration opportunities**



IFW 2022 in Canada with 500+ total participants

Organising committee members:



IFW 2024

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Singapore 2024

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Founder & CEO

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