



**IPB University**  
— Bogor Indonesia —



**SUSTAINABLE  
DEVELOPMENT  
GOALS**



IPB UNIVERSITY  
**SUSTAINABILITY DEVELOPMENT GOALS**

SDGs Report 2023

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SDGs Report 2023

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# GLOSSARY



## I

IAAS : The International Association of students in Agricultural and related Sciences

## N

NFA : The National Food Agency

## O

OVOC : One Village One CEO

## S

SEAFST Center : South-East Asia Food And Agricultural Science And Technology Center

SPR : Sekolah Peternakan Rakyat (IPB Community Livestock School)



2 ZERO HUNGER



## End hunger, achieve food security and improved nutrition and promote sustainable agriculture

### 1 Learning Program

Explore global challenges of hunger and malnutrition, and how sustainable agriculture can offer solutions. Through IPB University initiatives like **Migratoria 2023** and the **Tempe Summer Course**, students learned about crop diversity, particularly legumes, for food security and ecosystem health. They also studied IPB's **Smart Agriculture Program** with South Korea, covering precision farming, data analytics, and other innovations key to efficient, sustainable food production. Aligned with Indonesia Emas 2045, discussions with **the National Food Agency (NFA)** introduced strategic policies for national food security. In IPB's **new Master's Program** in Food Security, students explored food safety from production to consumption. They also examined food loss and waste, gaining insights from webinars by **Waste4Change** and leaders like Prof. Dominicus Savio Priyarsono. Additionally, IPB's international collaborations, including with **NUS**, highlighted the role of global partnerships in enhancing food security. Building on IPB University's sustainability projects, this course emphasized student-led agricultural and community outreach initiatives, with a particular focus on addressing food insecurity and poverty by reducing food waste.

Practical sessions included hands-on workshops on smart agriculture techniques, food safety protocols, and food waste management strategies, providing students with real-world skills. Students work on group projects focusing on local food security initiatives, aiming to design and implement strategies that address hunger at the community level.



**200** Servings/day Agrianita's Food Support

### 2 Research and Innovation

IPB University advances SDG 2: Zero Hunger through **innovations** in agriculture, livestock, and food security. High-yield, resilient **IPB 3S Rice Varieties** are widely cultivated and exported, boosting food production, while sustainable soybean and garlic technologies reduce import reliance. IPB promotes food diversification by developing low-glycemic alternatives like cassava-based **analog rice** and corn noodles. In livestock, IPB's **IPB-D1** chicken breeds and IoT-enabled platforms like MATASAPI enhance sustainable poultry and cattle farming. **Precision agriculture tools**, including Sawah 4.0, optimize inputs to improve yields and environmental health, while vertical farming solutions like Apartemen Kepiting 4.0 maximize space efficiency.



Community programs, such as **SPR IPB**, **One Village One CEO** and **PreciFlog**®, empower farmers and improve food logistics. **AgriSprina** unites stakeholders for interdisciplinary research, reinforcing IPB's role in national food security.

## Research in number

 **850** scholarly output in 2019–2023

 **816** FWCI in 2019–2023

 **4974** citation count in 2019–2023

**11.09%** of all Indonesian citation count

**10.04%** of all Indonesian scholarly output

### 3 Campus Operation

IPB University is actively addressing food insecurity and advancing SDG No. 2 (Zero Hunger) through several impactful programs. The **CEO School** prepares students to become agripreneurs, focusing on sustainable food production and resilient agriculture. Collaborations like **the SEAFast Center** contribute to national food safety policies with research-backed **Policy Briefs**, ensuring safe and sustainable food systems. The IPB Journal "Agro-Maritim" publishes research promoting agricultural productivity and system resilience, sharing innovative solutions for food security. On campus, **WarungKita**, offers affordable, nutritious meals, enhancing welfare and supporting low-income students. Through these initiatives, IPB University demonstrates a holistic commitment to combating hunger and supporting sustainable agriculture.



### 4 Community Engagement

IPB University's **OVOC Program** in Liyu Village, East Kalimantan, integrates traditional knowledge with modern agriculture to preserve local culture and enhance food security. The **"IPB Plant Clinic"** in Kiarasari serves as a field laboratory, providing local farmers with expert consultations to improve crop health and yields, thus addressing food insecurity. **In Fakfak, Papua**, IPB University fosters collective farming cooperatives among livestock farmers, enhancing efficiency, market access, and economic resilience. A partnership with **the Food Security Academy in Perak**, Malaysia, bolsters food security through collaborative research and sustainable agricultural development. The **"Go-Roasting"** program in West Bogor empowers coffee farmers with knowledge and tools to improve production, increasing their incomes and community food security. The **Agripreneur Program**, in collaboration with the Ministry of Cooperatives and Small and Medium Enterprises, promotes agricultural entrepreneurship among youth, supporting local and national food security. The "Gerakan Makan Sehat" (**Healthy Eating Movement**) educates the community on nutrition and healthy eating to combat malnutrition. Additionally, Himagizi, the Nutrition Student Association, leads the **"Gizi Peduli Indonesia"** initiative to raise awareness about

nutrition and support underserved areas in the fight against malnutrition.

## 5 Student Activities

IPB University students participating in the **KKN-T Budikdamber** (Thematic Community Service Program) in Cikembulan village implemented the Budikdamber system, integrating fish farming with vegetable cultivation to enhance food security and nutrition. HIMITEPA, the Food Science and Technology Student Association, hosted **World Food Day** with the theme "Indonesia's Culinary Treasures," showcasing local food resources and addressing global food security. Similarly, IAAS LC IPB organized I-Live, focusing on the challenges faced by young farmers and promoting improved agricultural practices. Students are also raising awareness about the **Importance of Nutritious Meals** on campus, educating vendors on preparing balanced and hygienic options, and advocating for affordable, healthy food choices. ORMAWA Fapet launched the **Gerakan Protein Sehat** (Healthy Protein Movement) to encourage regular consumption of eggs and milk, particularly in rural communities. **Project Fun Legian**, a collaboration with the Pelargonja Foundation, provided meals to PKU students, supporting the Zero Hunger goal. IPB University leads food waste reduction initiatives, with events like IAAS LC IPB's **LAND (Leave No One Behind)**, which promoted food safety and sustainability. **The IAAS Conversation Club** discussed food management and environmental conservation. Students engage in **Food Waste Management**, promoting waste segregation, composting, portion control, and innovative solutions like food-sharing programs. IPB students won an award at **the Institute of Food Technologists competition** in Chicago for innovative products. The Newbies team introduced

Drasties, a nutritious smoothie made from local ingredients, while Upteamis presented PURI, a nutrient-packed puree made from whole dragon fruit. In celebration of National Farmers' Day and World Food Day, BEM KM IPB University organized the **Semarah Bumi Tani 2023** event, featuring a food bazaar and discussions on food sovereignty. Brayen Ariel represented IPB University at the **World Food Forum 2023**, engaging with global leaders on food security and sustainable practices. His involvement highlights the university's commitment to empowering students as leaders in addressing food insecurity.

