



IPB University
— Bogor Indonesia —



Department of
Food Science and Technology



SUSTAINABLE
DEVELOPMENT
GOALS

SEAF
CENT

PELATIHAN BETTER PROCESS C PENGUKURAN TERMAL

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IPB UNIVERSITY
SUSTAINABILITY DEVELOPMENT GOALS
SDGs Report 2024



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SDGs Report 2024

Contributors:

Bunga Anggraeni
Eny Widiya Astuti
Gaetania Faza Adhara
Hafizh Purnama Putra
Husayn Musarrafi
Nabilah Zulfah Ramadhani

Design and Cover:

Akbar Muhammad Fauzi
Ghina Khansa
Mufrihatun El Walidayni

**Directorate of Strategic Studies and Academic Reputation
IPB University**

Gedung LSI 1 Floor Jalan Kamper,
IPB University Dramaga Campus, Bogor-Indonesia 16680
Phone number: +6251-8624057 | E-mail: dkasra@apps.ipb.ac.id
Website: <https://sustainability.ipb.ac.id>

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GLOSSARY

B

BPOM-RI : Badan Pengawas Obat dan Makanan – Republik Indonesia
(Indonesian Food and Drug Authority)

L

LKST : Lembaga Kawasan Science dan Teknologi (Institute of Science
and Technology Area)

M

MSME's : Micro, Small, Medium, Enterprises

U

UMKM : Usaha Mikro, Kecil dan Menengah (Micro, Small, Medium
Enterprises)



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

1

Learning Program

IPB University continues to promote innovation-based education integrating science, technology, and industrial sustainability. Through the **Better Process Control School (BPCS) and Thermal Process Adequacy Measurement Training**, held in collaboration with BPOM RI, participants gained advanced competencies in food safety and process control, ensuring production meets international standards — a crucial foundation for sustainable industrial practices.



In parallel, the Department of Agroindustrial Technology (TIN) initiated a partnership with the Queensland University of Technology (QUT) to develop joint and double master's degree programs in **Bioprocess engineering and technology management**. This collaboration strengthens the development of globally competitive human resources for future green industries.



2

Research and Innovation

IPB University drives research that enhances industrial competitiveness and environmental responsibility. Prof. Khaswar Syamsu from the Faculty of Agricultural Technology (Fateta) created **Ecoskin**, an eco-friendly exfoliating gel made from pandan-leaf extract rich in antioxidants. The product exemplifies IPB's innovation in replacing synthetic chemicals with sustainable, halal, and biodegradable materials.



The **Surfactant and Bioenergy Research Center (SBRC IPB)**, partnering with PT Multi Hanna Kreasindo (MHKI), developed a breakthrough for converting Glycerine Pitch waste into glycerol-based carbon catalysts. This initiative demonstrates circular-economy innovation, transforming hazardous industrial waste into high-value products for fuel, fragrance, food, and pharmaceuticals. SBRC IPB, together with BDPKS and Universitas Tadulako, also conducted nationwide socialization on the **carbonization of oil-palm empty-fruit bunches (EFB)** to replace chemical fertilizers. The program promotes soil fertility, reduces production costs, and supports sustainable palm-oil farming across Indonesia.





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Research in Number



510

scholarly output
in 2020-2024



99

FWCI in
2020-2024



3520

citation count
in 2020-2024



11,84%

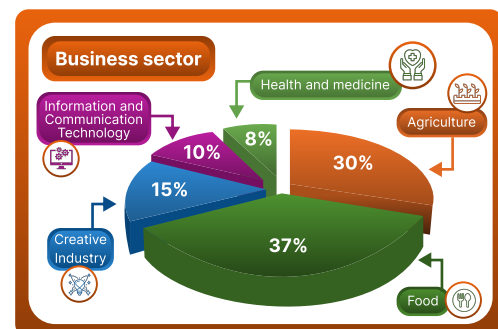
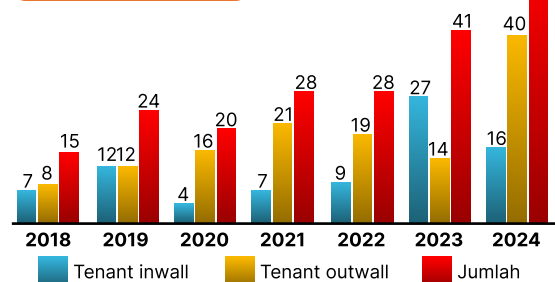
of all Indonesian
citation count



10,51%

of all Indonesian
scholarly output

212 Startup
(82 inwall, 120 outwall)



Campus Operation

Between 2018 and 2024, IPB University has successfully incubated:

Startups
212

120 outwall
tenants

82 inwall
tenants

The number of active incubated startups continues to grow each year, reaching 56 startups in 2024 through various incubation and acceleration programs such as the IPB DM Program, the Startup Capacity Building Program for MSMEs (Kemoponk UKM), and the PRIME STeP 2024 Program. These initiatives reflect IPB University's strong commitment to nurturing an innovation-based entrepreneurial ecosystem that bridges academic research, technology application, and commercial implementation.

Among the total, 62% of startups were founded by IPB alumni, demonstrating the university's capacity to cultivate entrepreneurial talent, while 36% originated from partnerships with external innovators. The startups span multiple business fields, with 37% focusing on food innovation, 30% in agriculture, 15% in creative industries, 10% in information and communication technology (ICT), and 8% in health and pharmaceutical sectors. This distribution illustrates IPB's central role in promoting agro-industrial innovation to strengthen food security and sustainable economic growth.

From the educational perspective, 80% of startup founders are bachelor's degree graduates, followed by 10% diploma graduates, 5% master's graduates, and 5% senior high school graduates, highlighting IPB's inclusive approach to entrepreneurship across education





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levels. Meanwhile, 62% of startup CEOs are male and 32% are female, showing positive gender participation in entrepreneurial leadership. Based on incubation types, 27% of startups are inwall tenants that utilize IPB's incubation facilities and mentoring directly on campus, while 73% are outwall tenants, independently operating but still connected to IPB's guidance and innovation network. In terms of investment, 7% of products are outcomes of IPB's direct investment, while 93% are privately financed, demonstrating the maturity and sustainability of the innovation ecosystem.

The PrimeSTeP incubation and acceleration programs further showcase the diversity of IPB's innovation landscape.

The incubation program includes startups:

PT Sutan Vet Medika

(developer of Felcover+, a supplement for companion animals)

CV Nivasindo Anak Indonesia

(creator of Planetiru, an organic fertilizer made from eggshell waste)

CV Sanfood Indonesia

(producer of children's food and spice products)

PT Sugeng Jaya Group

(developer of Superfeed, an efficient ruminant feed)

The acceleration program involves:

PT Lokasoka Widya Candia International
(B2B platform ecosystem for MSMEs)

PT SanGreat Natural Indonesia
(natural pest control and wellness products)

CV Pelita Desa
(exporter and processor of ornamental plants)

PT Bimogog Singeri Internasional
(maggot-based organic waste conversion)

PT Tripta Abayata
(Bens Farm, a sheep breeding enterprise)



Community Engagement

IPB University actively strengthens its community engagement through strategic partnerships and innovation-driven initiatives. One notable collaboration is with the Korea International Cooperation Agency (KOICA) and the IPB-SNU Center for Agriculture and Bioscience, resulting in the establishment of the **National Instrumentation Center for Agromaritime and Bioscience (NICAB)**. This project focuses on three main aspects: laboratory remodeling, procurement of advanced research equipment, and the construction of new laboratories that meet both national and international standards. According to the Rector of IPB University, Prof. Arif Satria, NICAB will enhance IPB's capacity to provide world-class research facilities and promote innovation across multiple disciplines. Meanwhile, Dr. Alim Setiawan, Vice Rector for Resource Resilience and Infrastructure, emphasized the importance of evaluation and planning to ensure that the investment in infrastructure directly supports research and education.



Furthermore, IPB University, through the Science and Techno Park (STP) and Lembaga Kawasan Sains dan Teknologi (LKST), organized the **Industry Gathering and Business Matching 2024**, which brought together 21 inventors and 20 startups to engage with industrial partners.





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The event facilitated the signing of five cooperation agreements and additional collaborations with six tenant companies, most of which are IPB alumni. Prof. Erika B. Laconi, Head of LKST, highlighted the university's ongoing commitment to bridging research inventions with industrial application and ensuring social and economic impact. Reinforcing its vision as an "innopreneur university", IPB has achieved 1,072 patents, including 372 granted, and supported 438 startups through its incubation programs, maintaining a success rate of over 60%.

In 2024 alone

56 startups incubated by IPB generated approximately:

IDR 155 billion in total revenue

and created **986 jobs**



Additionally, through the **Dospulkam initiative in Jepara**, IPB students and lecturers introduced Integrated Agriculture and Food Safety Systems to local schools. The program built early awareness of sustainable agriculture, nutrition, and local food entrepreneurship.

These initiatives collectively illustrate IPB University's strong community engagement and contribution to building resilient infrastructure, promoting inclusive industrialization, and fostering innovation—core pillars of SDG 9.

5

Student Activity

Students contribute actively to innovation for sustainable industries. The **COBA ICIP 2024 Expo** by the Food Service Management and Nutrition Program showcased creative food-product innovations from Beneng taro flour. The event nurtured entrepreneurial thinking and applied learning in food technology for sustainable product development.





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"Sustainable supply chains are competitive advantages in disguise."



SDGs Report 2024 : Supplementary Report