



**IPB University**  
— Bogor Indonesia —



Supplementary

# Sustainability Report 2020

**SDG 12:**

Ensure sustainable consumption and production patterns

**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



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# Learning Programs



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## 1

# IPB University Lecturers Share Tips on Safe Handling of Qurban Animals during COVID-19 Pandemic

Sacrifice is excellent worship for Muslims around the world, including in Indonesia. The sacrificial service in 2020 is different from previous years due to the COVID-19 pandemic, forcing Muslims to be careful in carrying out the slaughter of sacrificial animals. All activities carried out must follow the health protocols set by the government so that in carrying out the slaughter of sacrificial animals and handling sacrificial animals must also follow the rules set. To socialize the procedures for slaughtering animals during the COVID-19 pandemic, the Department of Animal Diseases and Veterinary Public Health, FVM IPB University, held a webinar on the safe handling of sacrificial animals during the COVID-19 pandemic.

As the first resource person, Drh Syamsul Ma'arif, Director of Veterinary Public Health, Directorate General of Livestock and Animal Health, Ministry of Agriculture, explained that sacrificial animal slaughter is carried out by referring to government regulations, namely Circular Number 0008/SE/PK.032/ F/06/2020 concerning the Implementation of Sacrificial Activities in a Non-Natural Disaster Outbreak of Corona Virus Disease (COVID-19). He also suggested that they should pay attention to the Regulation of the Minister of Agriculture of the Republic of Indonesia Number 114 of 2014 concerning Slaughter of Sacrificial Animals and Law Number 18 of 2009 in conjunction with Law Number 41 of 2014 concerning Animal Husbandry and Animal Health Article 61.

This regulation was made taking into account the risk factors for the transmission of COVID-19 during the upcoming sacrificial activities. Dr. Syamsul suggested mitigating risks when slaughtering the upcoming qurban, namely maintaining physical distance between the committee, implementing personal hygiene, conducting health checks, and implementing hygiene and sanitation at the slaughtering site.



The second resource person is Dr. drh. Denny Widaya Lukman, IPB University lecturer who is also a member of the Veterinary Health Expert Commission, Agricultural Quarantine of the Indonesian Ministry of Agriculture, explained that sacrificial meat must pay attention to halal aspects, sanitation hygiene, and animal welfare. The slaughter of this sacrificial animal is a critical point in the series of Eid al-Adha worship. This activity is also a process that has the potential to cause stress, pain, and pollution. Therefore, the material presented in this webinar covers the handling of animals before slaughter, the slaughtering process, to the handling of sacrificial meat.

This webinar is only carried out by delivering material without any practice, so it is still necessary to carry out training through a hands-on approach to apply the procedures for handling and slaughtering sacrificial animals and sacrificial meat with suitable health protocols.

# 2

## Agrarian Waqf Development, Knowledge and Practice of Agrarian Waqf through Innovative Training

The Center for Agrarian Studies (CAS) in collaboration with Baitul Mal Aceh, the Religious Sociology Study Program of UIN Ar-Raniry, and the Institute for Research and Community Service IAIN Langsa held agrarian waqf training with the theme “Encouraging the implementation of innovative agrarian waqf in Aceh” on 19 and 21 September 2020 using a virtual platform. The general public's understanding that waqf allocation is more for activities aimed at religious matters and facilities (such as mosques, implementation of innovative agrarian waqf in Aceh” on 19 and 21 September 2020 using a virtual platform. The general public's understanding that waqf allocation is more for activities aimed at religious matters and facilities (such as mosques, madrasas, and so on). In fact, waqf allocations is also related to the other purpose, such as waqf for productive economic business that is able to generate profits. This understanding is what we want to convey in detail to the trainees from various institutions in Indonesia. The main resource persons in this training were Mr. Bobby P. Manullang (Dompét Dhuafa), Dr. Hendri Tanjung (Indonesian Waqf Agency).

The consequences of organizing online activities are on the technical equipment and network connectivity. Network constraints due to weather conditions for fellow participants from Aceh caused obstacle of the training session, but it was still manageable.



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1. <https://mediabogor.co/m-shohibuddin-wakaf-produktif-untuk-usaha-pertanian/>  
2. <http://psa.ipb.ac.id/pelatihan-terbuka-pengembangan-wakaf-agraria/>



# FVM IPB University Held a Webinar on How to Handling of Sacrificial Animals on Eid-al-Adha during the COVID-19 Pandemic

Kegiatan Webinar yang dilakukan pada 6 Agustus, 27 Agustus, dan 10 September 2020 ini merupakan kerja sama antara Departemen Ilmu Penyakit Hewan dan Kesehatan Masyarakat Veteriner Fakultas Kedokteran Hewan IPB University, Kongres Wanita Indonesia (Kowani), Persatuan Istri Dokter Hewan Indonesia (PIDHI)

## Seri 1. Pemanfaatan Susu dan Produk olahannya Sebagai Peluang Usaha

Kegiatan dilaksanakan pada tanggal 6 Agustus 2020 dengan narasumber Prof Dr Drh Mirnawati Sudarwanto, serta Peluang wira usaha untuk Produk Olahan Susu, oleh ibu Dr. Kartini Istikomah SE., MM dari Kowani. Kegiatan berskala nasional ini diikuti sebanyak 495 peserta berasal dari berbagai Perguruan tinggi dan organisasi wanita se Indonesia. Kegiatan ini bermanfaat dalam memberikan pengetahuan tentang gizi, keamanan pangan dan cara penanganan produk asal hewan yang tepat melalui Buku Saku Peningkatan Pengetahuan Produk Pangan Asal Hewan dan Usaha Ekonomi Kreatif.

## Seri 2. Pengetahuan tentang daging sapi dan daging ayam dan ide usaha kreatif.

Kegiatan dilaksanakan pada tanggal 27 Agustus 2020 dengan narasumber Dr Drh Denny Widaya Lukman dengan materi pengetahuan dan informasi tentang daging sapi dan daging ayam. Materi ide usaha kreatif dalam mengembangkan bisnis kewirausahaan berbasis produk pangan Daging ayam dan Sapi dengan narasumber Dr Kartini Istikomah SE MM & Siti Amelia Jorjiana, SSn dari Kowani. Kegiatan ini diikuti sebanyak 280 peserta berasal dari berbagai Perguruan tinggi dan organisasi wanita se Indonesia. Kegiatan ini bermanfaat karena dapat memberikan ide usaha kreatif untuk membuka wirausaha baru yang berbasis pangan hewan dan olahannya karena melalui kegiatan ini terbentuk kelompok wirausaha baru berbasis produk pangan asal hewan dan hasil ol:



## Seri 3 Gizi dan Keamanan Telur untuk Keluarga Sehat dan Produktif.

Kegiatan dilaksanakan pada tanggal 10 September 2020 dengan narasumber Dr Drh Trioso Purnawarman, M.Si dengan materi Kiat Memilih Telur Konsumsi dan Cara Penanganan yang Baik. Ide usaha kreatif untuk memulai bisnis kewirausahaan berbasis telur dan olahannya dengan narasumber Dr Kartini Istikomah SE MM dan Dr. Khalilah, M.Pd dari Kowani. Kegiatan ini diikuti sebanyak 500 peserta berasal dari berbagai Perguruan tinggi dan organisasi wanita se Indonesia.

Manfaat pelaksanaan kegiatan ini adalah meningkatkan pengetahuan tentang gizi, keamanan pangan dan cara penanganan produk asal hewan yang tepat, serta memberikan ide usaha kreatif untuk membuka wirausaha baru yang berbasis pangan hewan dan olahannya.

Luaran kegiatan ini adalah terbentuknya kelompok wirausaha baru berbasis produk pangan asal hewan dan hasil olahannya.

## 12 RESPONSIBLE





# 5

## Fishtech Updates: Management And Assessment of Food Safety Practice

**Minggu, 17 Mei 2020**

Webinar ini mengusung tema "Management and Assessment of Food Safety Practices" Manajemen yang baik dalam penanganan produk industri pengolahan dari penanganan hingga distribusi ke konsumen sangat penting diketahui dan dilakukan bagi setiap pemangku usaha. Hal ini dilakukan untuk menjaga kualitas produk yang dihasilkan aman tanpa adanya kontaminasi penyebab sakit akibat makanan. Selain itu kepercayaan konsumen dapat meningkat terhadap produk yang dihasilkan.

**Sunday, May 17, 2020**

This webinar carries the theme "Management and Assessment of Food Safety Practices" Good management in handling industrial products from handling to distribution to consumers is very important for every business stakeholder to know and do. This is done to maintain the quality of the resulting product safely without any contamination that causes foodborne illness. In addition, consumer confidence can increase in the products

The poster features a light blue background with yellow and pink splashes. At the top left, it displays the IPB University logo and 'Faculty of Fisheries and Marine Sciences'. To the right, it says 'THP-FPIK' and 'HIMASILKAN & Departemen Teknologi Hasil Perairan proudly present'. The main title 'FISHTECH UPDATES Management and Assessment of Food Safety Practices' is in large, bold, pink and purple letters. Below the title, there are two circular portraits: one of M. Hatta Djamil, S. Pi, identified as 'Lead Auditor di Lloyd's Register Quality Assurance', and another of Wahyu R. S. Pi, M.Si, identified as 'Moderator'. The date and time 'Sunday, 17 May 2020 10.00 - 11.30 WIB' are shown with a calendar icon. A Zoom icon is next to the text 'Via Zoom'. A registration link 'bit.ly/FishtechUpdates1' is provided in a pink box. At the bottom right, it lists 'Join and Get - E-certificate - Prize for 5 active participant'. A '2/2' page indicator is in the top right corner.

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# 6

## International E-Conference on Sustainable Agriculture and Farming System 2020 International Conference on The Theme of Sustainable Agriculture and Agricultural Systems

International e-Conference on Sustainable Agriculture and Farming System (ICoSAFS) is an international conference held as an expression of concern to build and develop sustainable agriculture and agricultural systems in Indonesia. ICoSAFS has proposed in the scheme "Grants for organizing international seminars/workshops with indexed proceedings on the Scopus database".

The implementation of the activity was held in conjunction with the Cooperation Agency (BKS) Western Region of Agriculture and the International Society for Southeast Asian Agricultural Sciences (ISSAAS), Indonesian Chapter.

International E-Conference Sustainable Agriculture and Farming System (ICoSAFS) aims to improve the international reputation of IPB in the criteria of the World Class University. The specific purpose of organizing related to the topic of Sustainable Agriculture and Farming System include:

1. Media scientific forum to discuss sustainable agricultural systems and agricultural systems
2. Encourage and facilitate networking for Indonesian researchers, especially the ipb academic community, in the international arena.
3. ICoSAFS are mediating the publication of research results of the IPB academic community and Indonesian researchers in a reputable database (indexed Scopus).

The ICoSAFS Conference was held virtually via Zoom Meeting on September 24-25<sup>th</sup> 2020. The ICoSAFS conference consists of plenary sessions and parallel sessions. Various aspects related to sustainable agricultural systems and agricultural systems were discussed during the meeting. The conference was attended by 7 (seven) invited speakers from the United States, Japan, Croatia, Malaysia, and Indonesia.

The constraint of this program is the unstable internet network at the time of the implementation of the program.

This output of this program is advocacy efforts to improve competitiveness in terms of sustainable agriculture system and agricultural system in Indonesia, overall financing from IPB University to fully support the components of this conference event.



# 7

## IPB University Bahas Pembangunan Pariwisata Berkelanjutan Pasca Pandemi COVID-19

08 Mei 2020 Bogor, Jawa Barat

Sektor pariwisata menjadi sektor yang paling terdampak dengan adanya pandemi COVID-19 yang terjadi di Indonesia. Banyak tempat wisata dan tempat hiburan yang harus ditutup. Ditutupnya tempat wisata diharapkan mampu memutus rantai penularan COVID-19. Sejalan dengan kejadian tersebut, Departemen Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam (FMIPA), IPB University menggelar diskusi online “Ngabuburit Bareng Dosen Muda BioIPB #1” pada 8/5. Diskusi kali ini membahas tentang “Membangun Pariwisata Berkelanjutan Pasca Pandemi COVID-19”.

Saat adanya pandemi COVID-19 ini, harus ada panduan tersendiri yang sesuai dengan kondisi,” tutur Himas Fuady Putra, SSi, MSi selaku dosen IPB University dari Departemen Biologi, FMIPA, IPB University. Sebagai dosen muda sekaligus Assesor of Indonesian Sustainable Tourism Award 2019, Himas menyatakan bahwa pariwisata berkelanjutan dapat dicapai apabila memenuhi kriteria Sustainable Development Goals (SDGs). Minimal memenuhi tiga dari 17 poin yang tercantum dalam SDGs, yaitu *economic growth, sustainable consumption, dan production and sustainable use of oceans and marine resource*.

**Manfaat Program:** Memberikan pemahaman kepada masyarakat umum mengenai upaya pembangunan pariwisata berkelanjutan.

**Tantangan Program:** Upaya edukasi ataupun sosialisasi ke masyarakat butuh waktu yang lebih lama dan berulang.

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# 8

## Plastic Waste Management Training to Realize IPB University's Green Campus

The resource person for this training is Muhamad Baedowy who is a successful plastic waste recycling entrepreneur and has more than 20 years of experience, the founder of Majestik Buana Group as well as a student of the SB-IPB Masters Study Program.

The purpose of this training is to educate students to care about the environment, change the students mindset that it is possible to convert used items into valuable items, sharing business ideas related to handling used goods (plastic), improve public speaking skills related to handling plastic waste, and provide solutions for handling plastic waste. This activity is useful to add insight on Sustainable Development in the field of Entrepreneurship.



The image shows a Zoom meeting interface on the left and a flyer for a training session on the right. The Zoom meeting features a main video of a man in a black hat and glasses, with a grid of smaller video thumbnails below. The flyer, titled "GREEN ENTREPRENEUR", is for a "PELATIHAN PENGELOLAAN LIMBAH PLASTIK" (Plastic Waste Management Training) held on August 18, 2020, from 09:45 to 15:30 via Zoom. The trainer is Muhammad Baedowy, S.E., M.M., Owner of Majestik Buana Grup. The flyer lists two benefits: 1. Knowing the types of plastic, how to choose, process, and do business based on plastic waste. 2. Communicating business ideas so they are suitable and can collaborate with partners.

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# 9 Sharing Knowledge with Knowledge Platform

CTSS as a center that has a mandate to develop sustainable science, is trying to initiate a platform called the knowledge platform. The presence of this platform is important to develop sustainable science. There are three kinds of knowledge platforms developed, namely Transdisciplinary Tea Talk, Graduated Student Monthly Seminar on Sustainability and Afternoon Discussion on Redesigning the Future.

## GRADUATE STUDENT MONTHLY SEMINAR

is a discussion held by raising the issue of sustainability. This discussion is intended for postgraduate students throughout Indonesia.

## AFTERNOON DISCUSSION REDESIGNING THE FUTURE

This discussion is an “out of the box” discussion series that discusses interconnectedness and wisdom. This discussion series seeks to invite the public to look at the future in a different way.

## TRANSDISCIPLINARY TEA TALK

The Transdisciplinary Tea Talk discussion series is directed to discuss the transdisciplinary approach and its application in society. In particular, 2020 discusses the issue of the Covid-19 pandemic.



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Link Activity:  
<https://ctss.ipb.ac.id/>



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## 2nd International Symposium on Transdisciplinarity Approach for Knowledge Co-creation in Sustainability (ISTAKCOS)

The 2nd International Symposium on Transdisciplinary Approach for Knowledge co- Creation in Sustainability (2nd ISTAKCOS) is a biannual conference organized by CTSS IPB University. In 2020, ISTAKCOS raised the theme "Understanding Complexity and Transdisciplinary for Sustainability."

The conference was held on November 3-4, 2020 via zoom webinar and zoom meeting. This symposium is a meeting platform for various experts for sharing the results of their research and experiences related to sustainability. The conference provides insights into the implementation of transdisciplinary and sustainability science in solving the problems of increasingly complex development issues.

The conference was attended by 230 participants from Indonesia, the Philippines, Germany, Taiwan, Italy, and South Africa. In this activity, the committee received 68 abstracts to be presented and 42 full papers to be published in IOP Earth and Environmental Sciences.



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Link Activity:  
<https://ctss.ipb.ac.id/2020/11/06/the-2nd-international-symposium-on-transdisciplinarity-approach-for-knowledge-co-creation-in-sustainability/>



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# 11

## National Aquaculture Seminar

Department of Aquaculture, FPIK-IPB participated as a resource person in the 2021 National Aquaculture Seminar organized by the Aquaculture Study Program, University of Mataram on: 27-28 May 2021. The topics raised in the event were: the role of fish nutrition and feed ingredients. Prof. Dr. M. Agus Suprayudi was the person of Aquaculture Dept. representative

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Full Paper dan Pembayaran  
sid 20 Mei 2021

Pelaksanaan Kegiatan  
27 - 28 Mei 2021

**MEDIA PUBLIKASI**

1. Jurnal Perikanan Unram
2. Jurnal Media Akuakultur Indonesia
3. Jurnal Nutrisi Ikan
4. Jurnal Kesehatan Ikan
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# 12

## Training In The Implementation Of SDGs In The Environmental Sector

### 1.1 Implementation Time

1. 41st Batch of AMDAL Basics: March 2-7, 2020 (offline)
2. 42nd Batch of AMDAL Basics: July 13-17, 2020, 42nd Batch (online)
3. 43rd Batch of AMDAL Basics: August 31 - September 4, 2020 (online)

### 1.2 Brief Description

The first training in 2020 was held offline on March 2-7, 2020. Since the Covid-19 occurred, Training on AMDAL Basic were held online on July 13-17, 2020, and August 31st - September 4th, 2020. Participants came from government agencies, private sector, consultants, and colleges. There are seven speakers were involved in this training consisting of various fields, six speakers were from the Bogor Agricultural University, and one person was from the Ministry of Environment and Forestry (KLHK) RI.

The teaching materials given to the participants include the basics of AMDAL Training which was prepared by Environmental Research Center (ERC-IPB). Teaching materials are given to participants in the form of softfiles. All participants received a set of Laws and Regulations on the Environment and a collection of AMDAL Basics Training materials as well as documentation during the training in one flash drive.

### 1.3 Benefits

1. Ensure inclusive and equitable quality education and promote lifelong learning opportunities
2. Participant gained insight and understanding of the background, legal basis, basic principles, benefits, and AMDAL process.
3. Acquire basic knowledge of the concepts of ecology, natural resource management, and the environment and the character of the environmental impacts of development projects.
4. Gain knowledge about the function, role, and application of scoping methods, impact identification methods, impact forecasting methods, evaluation of essential properties, and environmental impact evaluation.

### 1.4 Obstacles & challenges

The implementation of online activities sometimes runs the risk of network disruption on the committee, speakers, and participants. In addition, the limited time for organizing the event meant that not all questions submitted by participants could be answered during the event.

### 1.5 Outcomes / achievements

The target number of training participants was achieved and all material were delivered well. The target for increasing knowledge and competence of participants was also achieved.

42<sup>nd</sup> Batch of AMDAL Basics July 13-17, 2020 (Zoom Cloud Meeting)



43<sup>rd</sup> Batch of AMDAL Basics August 31 - September 4, 2020 (Zoom Cloud Meeting)



# 13 FEMA Webinar Series Perspective of Human Ecology for Sustainable Development

The Faculty of Human Ecology has successfully carried out the FEMA WISE series (Faculty of Human Ecology Webinar Series) which was held to commemorate the 15th anniversary of FEMA as well as the launch of Human Ecology Book Volume 2. FEMA WISE runs for 8 series on July 22 until August 2, 2020. Each series carries a different topic with the overarching theme "Perspective of Human Ecology for Sustainable Development". FEMA WISE is fully implemented online, with the aim to prevent transmission of covid- 19. The replay of FEMA WISE can be watched on either Event FEMA or IPB TV youtube channels.

## Laying the Foundations of Human Ecology in Sustainable Development

Ecology is defined as the interaction of living things with their environment (biotic and abiotic). Studying ecology is like studying the interrelated web of life. A single damage to natural resources can affect multiple environments . Global warming, flooding, air pollution, water pollution, deforestation, and abrasion are a series of environmental problems caused by damages to forest resources. Environmental change is not neutral, but it is a form of politicized environment, involving many actors at local, regional, and global levels (Bryant 2001).

## Food, Nutrition, Public Health and Welfare from an Ecological Perspective

Currently, the earth's population has reached 6-7 billion people, and is estimated to reach 10 billion in 2050. Such a large population has implications in the usage of one third of the earth's land for food production, 38% of water use, and 30% of greenhouse gas emissions from food production (Mason and Lang 2017). Ironically, 820 million people in the world will experience hunger, 677.7 million experience obesity, and chronic noncommunicable diseases will increase at the same time. The exploitation of resources should be followed by increased prosperity marked by the fulfillment of basic needs such as food and health.



<https://ipb.ac.id/news/index/2020/7/perspective-of-human-ecology-for-sustainable-development/41fa8d4f451a8e91f0a3f9dae3bc43ca>



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# Research, Innovation, and Business



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# 14

## Development of Tea Waste Pellets as Boiler Fuel in the Food Industry

The purpose of the partnership research with industry in 2020 is to develop technology for processing industrial tea leaf waste into pellets that can be used as biomass fuel for boilers. The research includes the characterization of the physico-chemical and thermal properties of tea leaf waste, development of technology for making pellets from tea leaf waste and testing the utilization of tea waste pellets as boiler fuel. The results showed that tea waste pellets can be used as boiler fuel quite well, so the industry is interested in developing a commercial scale of tea waste pellets production.





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# Community Development



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# 15

## Pendampingan Pengembangan Ekowisata di Desa Penyangga Taman Nasional

Pendampingan dilakukan oleh P4W LPPM-IPB kepada Kampung Sukagalih di Desa Cipeuteuy Kecamatan Kabandungan Kabupaten Sukabumi untuk mengoptimalkan potensi kampung ini untuk dikembangkan sebagai kampung ekowisata. Modal alam yang dimilikinya sungguh sangat mendukung bagi kegiatan ekowisata seperti sungai dengan airnya yang begitu jernih yang membelah persawahan yang produktif dan rapi, adanya hutan damar yang teduh dan nyaman untuk trekking, hingga flora dan fauna yang unik sebagai bagian dari kekayaan hayati Taman Nasional Gunung Halimun Salak yang memang bersebelahan dengan kampung ini. Dengan kata lain, Kampung Sukagalih ini memang menjadi bagian dari penyangga Taman Nasional.

### Manfaat

- Peningkatan pendapatan bagi masyarakat setempat secara berkelanjutan;
- Introduksi pertanian organik bagi para petani setempat yang masih mempraktekkan praktek konvensional agar kompatibel dengan ekowisata;
- Pengurangan ketergantungan terhadap budidaya sayur yang intensif dan ekspansif yang mengancam lahan-lahan pada kawasan hutan atau lahan-lahan dengan kelerengan yang curam;
- Terjaganya kelestarian lingkungan kampung dan sekelilingnya yang memiliki nilai ekologis penting sebagai bagian dari penyangga Taman

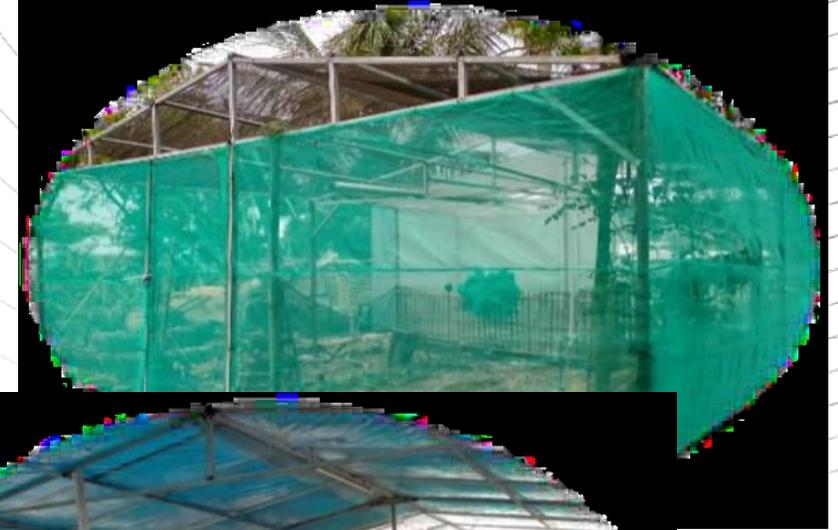
### Luaran/capaian

- Telah dilaksanakannya uji coba paket wisata yang menghasilkan evaluasi dan rekomendasi bagi perbaikan dan penyempurnaan Kampung Sukagalih sebagai destinasi ekowisata
- terbangunnya infrastruktur secara swadaya dalam bentuk jalan setapak sebagai tindak lanjut dari rekomendasi yang disampaikan sebelumnya;
- terjaganya semangat, kesadaran kritis, dan aksi kolektif warga untuk mengembangkan ekowisata di kampungnya melalui interaksi yang kontinu dengan pendampingnya.



# 16 Livestock Integration Program with Organic System (GARASI ORGANIK)

Organic Garage is a Corporate Social Responsibility (CSR) program of PT Pertamina EP Asset 3 Subang Field in collaboration with CARE LPPM IPB which is located in Pringkasap Village, Pabuaran District, Subang Regency, West Java. In addition to the people of Pringkasap Village, the main target is for the Sa'urus Farm livestock group. This program is implemented from September to December 2020. This program carries out animal husbandry activities organically and integrated with each other. Efforts to produce organic livestock are realized through the provision of organic feed and livestock herbs which are also produced independently. Organic feed contains high protein and probiotics derived from maggot and odot grass. Organic waste management is carried out to meet the production needs of maggot livestock and also to produce organic fertilizers used in the cultivation of odot grass and herbal plants. This activity also applies the principle of zero waste where all livestock waste including animal manure is used as manure to support other organic livestock activities.



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# 17 Demo Pengolahan Hasil Ternak di Desa Sudajaya Girang, Selabintana Sukabumi

Demo pengolahan hasil ternak di Desa Sudajaya Girang diselenggarakan di Poktan Alamanda Kampung Flori Selabintana Sukabumi pada hari Selasa 11 Agustus 2020 Acara yang dihadiri oleh perwakilan Ibu Ibu PKK Pemberdayaan Kesejahteraan Keluarga KWT Kelompok Wanita Tani dan Posyandu ini berjalan dengan sangat lancar sesuai dengan protokol Covid 19 Meskipun peserta dibatasi maksimal 20 orang, tetapi peserta sangat antusias karena demo mengenai pengolahan hasil ternak ini merupakan acara pertama yang diselenggarakan di desa ini. Demo yang dilakukan berupa pengolahan susu menjadi susu pasteurisasi dengan berbagai varian rasa, pembuatan lotion dan masker wajah dan pembuatan bantal dari bulu domba Selain cara pengolahan demo juga membahas mengenai cara penyimpanan packaging, dan cara pemasaran produk Menariknya peserta secara sukarela mengajukan diri untuk menjadi volunteer untuk membantu pelaksanaan demo tanpa harus ditunjuk Peserta yang lain ikut memerhatikan dengan seksama dan mencatat semua prosedur yang dilakukan Acara berjalan dengan sangat kondusif meskipun cuaca saat itu sedang turun hujan



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# 18

## Palm Oil Solid Waste Processing into Various Product (Product Diversification) to Improve the Economy of Wirajaya Jasinga Village, Bogor Regency

### Description

The economic improvement of Wirajaya Village, Bogor Regency, which is an underdeveloped border village through the utilization of the natural resource potential (SDA) of oil palm biomass into various kinds of innovative downstream products, is a community service activity from the Department of Physics, FMIPA IPB in 2020 and 2021. The activity begins with a socialization program to farmer groups, transfer of simple technology in processing POEFB waste and palm fronds, create creative product designs according to the market, and provide solutions in product sales. Technical assistance related to integrated waste processing from upstream to downstream has also been carried out through product diversification such as organic fertilizer made from POEFB as raw material, lignocellulosic POEFB as a raw material for biocomposites and planting media, as well as various creative industries from palm fronds (plates, brooms, fruit baskets, etc).

The impact of this activity is quite large and able to increase family's income during the COVID19 pandemic. The raw material used is a waste which is abundance and freely to grab in their region. Currently, solid waste of oil palm in the oil palm plantation of PTPN VIII Cikasungka accumulates around the trees as natural fertilizer and the rest is disposed of and not utilized optimally. In the rainy season this waste will decompose and pollute the river, while in the dry season the organic waste can emit a foul-smelling gas and which can cause sparks due to the remaining oil content.

This activity is a real contribution of IPB in preserving the environment by converting waste into creative products that have high economic value and selling value, as well as involving the community of farmer groups around the plantation village.

### Benefits

The benefits are the increasing the A creative material engineering industry through community service activities has produced innovative and environmentally friendly products. The main ingredient for this innovative industry is oil palm biomass from Bogor Regency, which involves village farmer groups around the PTPN VIII plantation. This activity directly contributes to the economic improvement of Wirajaya Jasinga Village by employing families around the plantation with an additional job during the COVID19 pandemic. This activity is a manifestation of IPB's service to the community in addition to the implementation and development of biomaterial science.

### Challenges

Geographically, Wirajaya village is an underdeveloped border village with a limited access to transportation, package/expedition services, banks, the internet connection, etc. All of those problems become the drawback and challenge for selling/marketing the commodity and products of Wirajaya village.

### Outcomes

(1) Developing a creative industry of solid palm oil wastes (POEFB and palm sticks) around PTPN VIII Wirajaya Jasinga area by involving the community of farmer groups; (2) Providing the added value, increasing the competitiveness, and diversifying the downstream products and palm oil derivatives; and (3) Improving the economy of underdeveloped border villages in Bogor Regency, reducing the unemployment, pushing the village community activities during the COVID-19 pandemic through creative innovations.



# 19

## Management and Institutional Strengthening of Waste Bank: KRL Sabilulungan, Sukamantri Village

KRL Sabilulungan in Sukamantri Village together with the community has taken the initiative to process and utilize waste, which then encourages the establishment of a waste bank institution.

The institutional waste bank has been running and managed by the community but not optimally. So it is necessary to increase the capacity of human resources in managing the waste bank.

To improve the institutional performance of the existing waste bank, counseling on the institutional management of the waste bank was carried out by Lecturers from the Center for Agrarian Studies together with the waste bank manager at the Forestry Research and Development Center located in Sukamantri Village.



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<http://psa.ipb.ac.id/penguatan-kelembagaan-bank-sampah-krl-sabilulungan->



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