

INNOVATION FOCUS

Quarterly Publication of the PSAU Office of Innovation

ISSN 3028-1733

July - September 2024,
Vol. 3, Issue 3



DOST-PCAARRD, PSAU host AIPF 2024

Robby D. Lalu

DOST-PCAARRD and PSAU successfully hosted the Agri-Aqua Innovation Pitch Fest (AIPF) 2024 on August 16, at the Royce Hotel in Clark Freeport Zone, Pampanga.

The event brought together over 500 participants from across the country to exchange ideas and showcase their innovative products aimed at advancing the agri-aqua sectors.

The AIPF 2024 provided a platform for participants to present their technologies to a panel of evaluators and investors. Present in the event are Sec. Renato U. Solidum Jr. of DOST, Dr. Reynaldo V. Ebora, Executive Director of DOST-PCAARRD, Dr. Juanito Batalon, Deputy Executive Director for Research and Development DOST-PCAARRD, Atty. Editha Hechanova, APP President, Dr. Anita G. David, PSAU President, and Dr. Robert H. Lo, CEO of RDF Feed and Private Sector Representative.

The event featured 10 regional booths, and two DOST-PCAARRD Start-up Grant Fund (SGF) booths, each showcasing products that highlighted the unique innovations and flavors of their respective regions. Twenty-two participants pitched their technologies, with Engr. Lord Boy Silong of Caraga State University earned the title of Best Pitcher. Dr. Deceryl Saligumba of Bohol Island State University and Engr. Sha Erra Monica O. Obefña of Bicol University were awarded second and third place, respectively.

Additionally, 39 technology posters were exhibited, with the top three awards presented to: CoPelt Bioleather Cogon Plant-Based Leather from Bohol Island State University for Best Poster; Buro Booster Silage Inoculant from the Philippine Carabao Center for Second Place; (*Continue on Page 2*)





and Mightibig Meat Tenderizer Extract by Asst. Prof. Divine Reine Aquino for Third Place.

Ms. Aquino, OOI Assistant Director, earned third place with her poster presentation on the MighTibig Meat Tenderizer Extract. The innovative technology was conceptualized by Reniel Andalion, an instructor from the PSAU Department of Food Technology.



Also, the 26 members of Region 3 RAISE Advisory council PSAU being the chair, and DOST-PCAARRD as the co-chair signed a Memorandum of Understanding (MOU) to build understanding and agreement to carry out the objective of RAISE Program of building sustainability and innovation.

The AIPF 2024 was a significant event that celebrated the achievements and innovations of state universities and research development institutions across the country, highlighting their contributions to transforming the agri-aqua sector.



AIPF 2024 IN A NUTSHELL



Exhibit of the 39 technology posters



Regional booths showcasing their best products



Pitching of the technologies



Q&A portion



Sponsors in their booth



Awarding of certificate and plaque

PSAU spearheads RAISE-Central Luzon BOA Council ceremonial MOU signing

Ma. Francescka G. Yumang

CLARK FREEPORT ZONE, Pampanga - PSAU, through its Regional IPTBM, steered the foundation of the Regional Agri-Aqua Innovation System Enhancement (RAISE) - Central Luzon Board of Advisory Council (BOA) and the board's ceremonial Memorandum of Understanding (MOU) signing on August 16, 2024, held during the Agri-Aqua Innovation Pitch Fest (2024) at Royce Hotel.

Through the leadership of Assoc. Prof. Walter Pacunana, OOI Director and project leader of the RAISE Program- Central Luzon's Regional IPTBM, 26 leaders from various agencies— both from the government and private sectors pledged to provide the member institutions with the required technical advisory and guidance on the implementation of an effective and efficient RAISE program in the region as part of the program's BOA Council.

According to Dir. Pacunana, said MOU signing was the formal establishment of the guiding body that would guide the program to further cater to its Consortium Member Institutions (CMIs).

"RAISE supports growth and development nationwide, with the RAISE BOA Council providing key guidance for success in RAISE Program in Region 3. We look forward to valuable discussions and partnerships to benefit the AANR sector locally and nationally," Pacunana stated.

To lead said council, PSAU President, Dr. Anita G. David was designated as the Chair, while DOST-PCAARRD's Executive Director, Dr. Reynaldo V. Ebora was positioned as the Co-Chair.

The board members are comprised of the heads of 12 government institutions, three heads of private agencies, and the leaders of the CMIs under the RAISE Central Luzon



In the region, the RAISE Program is anchored by four main component projects: the Regional Intellectual Property and Technology Business Management (IPTBM), the Agribusiness Hub, the Agri-Aqua Technology Business Incubator, and the Knowledge Management Hub.

Currently, the RAISE Program encompasses a network of 39 State Universities and Colleges (SUCs) and Research and Development Institutes (RDIs) across seven regions in the Philippines.



DOST-PCAARRD, PSAU host 2nd TPMS Final Module & Graduation Ceremony

Gloomy Rain C. Domingo

DOST-PCAARRD, with PSAU, hosted the final module and graduation ceremony for the 2nd Technology Promotion Mentorship Series (TPMS) of RAISE Batch 2 from August 14 to 15, 2024, at Royce Hotel, Clark Freeport Zone, Pampanga. The event gathered project leaders and researchers from Regions 2, 3, 7, 9, 10, 12, and 13 participated and graduated from the series.

Mr. Geejay Bartolome, an associate professor at Cavite State University, led the final module, "PAGPUKAW 02: Introduction to Technology Promotion." He emphasized the importance of using storytelling to create effective and accessible technology promotion presentations for both online and offline audiences.

The participants created pitch deck presentations, with 15 of 39 to be showcased at the Agri-Aqua Innovation Pitch Fest 2024. PSAU was represented by IP Unit Head, Ms. Anne Gellie T. Dimabuyu and Asst. Prof. Divine Reine S. Aquino, OOI Assistant Director, presented the MighTibig Meat Tenderizer during the mock pitching segment.

A total of 92 participants successfully completed the mentorship series, which began on June 11, 2024, were awarded Certificates of Completion in recognition of their achievements during the TPMS.

PSAU President Dr. Anita G. David, in her welcome remarks, highlighted the essence of the program: "*What is important is that you experienced the 'four Ls'—you loved, you laughed, you listened, and you learned.*"



While DOST Executive Director Dr. Reynaldo V. Ebora, in his opening message, encouraged graduates to apply their learnings, stressing the importance of innovation and entrepreneurship. He said, "*Government resources would be wasted without good project implementers.*"



To formally close the event, Atty. Editha R. Hechanova, APP Executive Director, urged graduates to maintain curiosity and passion for learning new skills, while Dr. Noel A. Catibog, DOST-PCAARRD TTPD Chief, encouraged them to share their knowledge with others, saying, "*Share your learnings as if sharing your blessings.*"

The TPMS is one of five capacity-building trainings by DOST-PCAARRD, along with the Intellectual Property Masterclass, Technology Commercialization Mentorship Series, Agri-Aqua Business Masterclass, and Agri-Aqua Technology Incubation Masterclass.



PSAU joins SAFE Writeshop

Julia Katrina P. Bonotan

PSAU, through its OOI, attended the “S&T Action Frontline For Emergencies and Hazards (SAFE) Program Writeshop” on July 8, 2024. Led by DOST-PCAARRD’s Technology Transfer and Promotion Division (TTPD), the writeshop aimed at minimizing location-specific disasters through direct mitigation efforts as a response to the country’s susceptibility to natural disasters and the changing climate.

The program members include PSAU, Central Luzon State University (CLSU), President Ramon Magsaysay State University (PRMSU), and Tarlac Agricultural University (TAU), whose projects were evaluated by the TTPD Director Noel A. Catibog and CLAARRDEC Director Edgar A. Orden to ensure effectiveness, feasibility, and to better integrate the objectives and methods of the projects to the program.

In particular, the proposed PSAU project, led by Ms. Divine Reine S. Aquino, focused on the direct mechanical removal of water hyacinth from Pampanga’s water bodies. The harvests, by being removed from the water, targets to prevent the blockage of waterways and become livelihood for the-



beneficiaries, therefore reducing the risk of flood-related disasters and providing opportunities for the economy.

As the country suffers natural hazards year round, the SAFE Program focuses on improving capability against disasters from the Agriculture and Aquatic Natural Resources (AANR) sector and the aggravation caused by climate change. This goal is envisioned to be done through the introduction of S&T-based technologies and strategies founded upon climate-smart agriculture, sustainable aquaculture, and an ecosystem-based approach.

RAISE Cagayan Valley benchmarks OOI

Alexandra H. Gumba

The RAISE Program in Cagayan Valley benchmarked the PSAU-OOI on August 21, 2024. The visit aimed to explore the Office’s best practices in IPTBM and its Sibul TBI.

OOI spearheads key projects including its regional lead for the RAISE-Central Luzon Project 1, which focuses on Regional IPTBM in Central Luzon, and Project 3B, which aims to enhance the Agri-Aqua Technology Business Incubator at PSAU.

Dr. Eva U. Cammayo led the RAISE Cagayan Valley -

engaging in comprehensive discussions with PSAU officials on the office’s strategies.

Asst. Prof. Divine Reine S. Aquino, Assistant Director of OOI, provided an in-depth presentation of the IPTBM office’s current projects and achievements. Meanwhile, Ms. Jessa P. Nasarro, Project Technical Specialist of Sibul TBI, highlighted the incubator’s significant contributions to the local Agri-Aqua sector.

The delegation also paid a courtesy visit to PSAU President Dr. Anita G. David and VP-RIET Dr. Geraldine Sanchez, who warmly welcomed the group and expressed their appreciation for choosing OOI as a benchmark site.

The RAISE Cagayan Valley delegation included representatives from the Bureau of Fisheries and Aquatic Resources Region 2 (BFAR II), Batanes State College (BSC), Cagayan State University (CSU), Isabela State University (ISU), Nueva Vizcaya State University (NVSU), and Quirino State University (QSU).



OOI presents PSAU's RAISE Program Y1

Ma. Francescka G. Yumang



OOI leaders presented the first-year progress of PSAU's projects under the RAISE Program in Central Luzon during the monitoring session held at PSAU-ICTRD on September 26, 2024.

The presentation focused on the two key projects: the Institutional IPTBM and the PSAU-Agri-Aqua Technology Business Incubator (ATBI). The monitoring team, led by Assistant Director Lucy A. Lastimosa from the DOST-PCAARRD Technology Transfer and Promotion Division (TTPD) visited the University to assess and evaluate the progress made by the team in its first year of implementation.

Asst. Prof. Divine Reine S. Aquino, OOI Assistant Director, led the progress presentation of RAISE Central Luzon Project 1 Component B which is focused on further enhancing the Institutional IPTBM of PSAU.

Following this, Assoc. Prof. Walter L. Pacunana, OOI Assistant Director, and Ms. Jessa P. Nassaro, Project Technical Specialist, discussed the developments of Project 3B, which is dedicated to enhancing the PSAU-ATBI.

Institutional IPTBM: In numbers, ways forward

In its first year, PSAU's IPTBM filed 13 intellectual properties (IPs) and developed 16 IEC materials. Under OOI, the unit produced 9 pre-commercialization reports and participated in 12 training sessions, training 11 staff members in the process.

Additionally, the institutional IPTBM participated in technology promotion activities, established two partnerships with business and trade institutions, and was an active leader in the founding of the RAISE Central Luzon BOA Council.

Moreover, the team is actively working on the revision and enhancement of the University's IP Policy and Technology Transfer Protocol. Said policies are on their way for board approval and regional review to achieve harmonization with other SUCs and RDIs within the region.



The institutional IPTBM, under the RAISE program, aims for sustainability in promoting the protection of IPs and the promotion of innovation through commercialization, licensing, and technology generation and adoption not just in PSAU, but in the region, and ultimately, the nation.

PSAU-ATBI: In numbers, ways forward

In its first year of Phase II, the ATBI filed 16 IP applications, incubated four new technologies, and is continuing to support two existing ones. Forged four new incubatees and organized 10 training sessions for clients. The team also carried out five benchmarking activities and participated in at least 25 training sessions.

So far, the Sibul TBI produced 20 informational and promotional materials for both the incubator and its incubatees and attended 14 business pitching events and industry meetups to further enhance exposure to the relevant industries that can potentially increase the value of their products and services on the market.



KM Unit joins RAISE Project 4 Workshop

Allen Mark B. Demapanag

The Knowledge Management (KM) unit of the OOI participated in the Packaging Knowledge Resources and Knowledge Audit workshop held on September 26, 2024 at Central Luzon State University (CLSU).

The workshop was organized by the RAISE Project 4, led by the Central Luzon Agriculture, Aquatic and Natural Resources Research and Development Consortium (CLAARRDEC), aiming to establish a Regional KM Hub in Central Luzon.

RAISE Project 4 focuses on promoting Agriculture, Aquatic, and Natural Resources (AANR) technologies in Central Luzon for commercialization through the creation of a KM Hub.

Project leader Ms. Maria Adrielle S. Estigoy led discussions on the objectives, emphasizing the establishment of KM Hubs across select State Universities and Colleges (SUCs), including PSAU. These hubs will be known as "Knowledge-Café" or K-Café.

During the workshop, participants created an inventory of the knowledge resources available at their respective institutions.

These resources will help identify key technologies and facilities essential to setting up the K-Café.



PSAU's KM Focal, Robby Lalu, presented the university's knowledge resources, highlighting the IEC materials, promotional videos, and technologies that will be showcased in PSAU's K-Café.

He also introduced the planned physical space for the K-Café at PSAU, which will be housed in the university's Information Communication Technology R&D (ICT-RD) Office.

The K-Café will feature a coffee corner, mini-library, technology exhibit room, and conference area, serving as a collaborative space for knowledge sharing among the university's stakeholders.

PSAU's KM unit continues to lead knowledge-sharing efforts and strengthen its mission to acquire, promote, and share valuable knowledge in the AANR sector, and the academe.



Sibul TBI presents year 1 DA-BAR expansion dev't

Claudine C. Bucaled

September 27, 2024 - Sibul TBI showcased the Year 1 achievements of the project titled, "Expanding TBI Operations of the DA-BAR Program at PSAU" during the two-day monitoring visit of the Department of Agriculture - Bureau of Agricultural Research (DA-BAR).

Dir. Walter L. Pacunana, OOI Director, and Maricel B. Ramos, Sibul TBI Project Development Officer III, presented the project's accomplishments, focusing on its objectives and key targets.

Dir. Pacunana highlighted the Sibul TBI's highest percentage of accomplishment in terms of the technology-specific training provided to the incubatees with a 200% rate.

Representatives from the DA-BAR, including Mr. Cedric Nerona, Ms. Hannah Nicole Silva, and Ms. Karlene Kay Revita, reviewed the progress and evaluated the project's impact on the local agricultural sector.

During the Q&A session, discussions delved into the certification processes with the Department of Trade and Industry (DTI), and the Food and Drug Administration (FDA), shedding light on the challenges faced by farmers looking to market similar products.



PSAU DA-BAR ways forward

Right after the presentation of the project accomplishments, representatives from the DA-BAR conducted an on-site monitoring visit to assess two incubates involved in the Sibul Technology Business Incubator (TBI) program.

The first visit took place at REACH Integrated Farm, a farm co-owned by Ella Marie Pangilinan, and Richard Sarmiento. It can be recalled that Pangilinan and Sarmiento were among the first batch of incubatees of Sibul in 2022.



Pangilinan and Sarmiento described the challenges they faced, including financial hurdles, and operational setbacks which they overcome with perseverance and innovation.

Also, Pangilinan provided insights about their African catfish farming operation, such as the process of hatching and raising the fish, and she underscored their dedication to excellence and customer satisfaction.

Additionally, the team visited Emanuel Dela Cruz, Sibul TBI incubatee and member of Calzadang Bayu Farmers Agriculture Cooperatives.

During the visit Emanuel shared his knowledge on soil preparation and pest management, illustrating the program's role in enhancing local agricultural practices.

The two visits highlighted the importance of support for local farmers and affirmed the positive impact of the Sibul TBI activities and initiatives to upscale the livelihoods of its incubatees, reinforcing the value of entrepreneurship in boosting community resilience and economic growth.

As Sibul TBI moves into its next phase of development, the support and optimism from the DA-BAR monitoring team reflect a shared vision for the future—building empowered, resilient, and innovative agricultural communities.



Sibul TBI take part in the 2024 NEUST technovation expo

Queency Eurreanne G. Castillo

Sibul TBI partake in fostering innovation and knowledge sharing activity among the different academic communities in Central Luzon through an event titled 2nd NEUST Teknovation Expo on August 30, at the Nueva Ecija University of Science and Technology (NEUST) Sumacab Campus, Cabanatuan City, Nueva Ecija.

Led by Assoc. Prof. Walter L. Pacunana, OOI Director, and Ms. Chonnie Cholla R. David, TBI Manager, Sibul TBI actively engaged in the Central Luzon Technology Transfer forum.

Meanwhile, Mr. Kenneth Armas, DOST-NEUST TBI project leader thoroughly discussed the technology transfer framework in state universities in the Philippines.

On one hand, Ms. Russel Pili, Chief DOST-RITTD presented the technology transfer in the Philippines and its supporting systems highlighting the concept “*from lab to market*”.

The event emphasized the importance of aligning the -



technology transfer, intellectual property management, commercialization strategies of different government sectors, industries, and State Universities (SUCs) to the Sustainable Development Goals (SDGs) of United Nation in elevating not just the regional innovation ecosystem but the innovation landscape of the country.

Aside from the forum, DOST-NEUST TBI also showcased the developed technologies of their incubatees at the backside of the hall.

The three-day expo was organized by the DOST-NEUST Technology Business Incubator (TBI) to promote innovative ideas, highlight technological advancements, and provide a platform for networking with other institutions.

PSAU exhibits techs on BINNOVATION 2024

Cielo M. Guiao

PSAU Sibul TBI showcased and marketed their technologies during the BINNOVATION 2024: The 3rd National Agri-Aqua Technology Business Incubator Conference and Incubatee Summit held on August 10-11, 2024 with the theme “Harnessing Business Innovation through Business Incubation.” The event brought together twenty-one (21) ATBIs from 11 regions participating in Batches 1 and 2 of the Regional Agri-Aqua Innovation System Enhancement (RAISE) Program.

The event kicked off with a ribbon-cutting ceremony, opening the technology exhibits developed by ATBI incubatees to the participants and guests. Sibul TBI was one of participating ATBI for this event, along with one of its champion incubatee, Ms. Maria Concepcion M. Arcega. She showcased her products; Banana Chips, Camote Chips, Cassava Chips, and Taro Chips.

The university also marketed its best-selling products; Tamarind Wine, Tamarind Juice, Tamarind Vinegar-

Spiced Tamarind Vinegar, Tamarind Candy, Mushroom Ready-to-Fry Crackers, Mushroom Ready-to-Eat Crackers and Mushroom Chicharon.

“Different ATBIs, different technologies were all unique in their own way,” this was how the BINNOVATION 2024 opened for its technology exhibit event. This also gave the participants the chance to network and socialize with their fellow incubatees and incubators. Also, in recognition of the ATBI’s participation in this event, a ceremonial unfurling of 26 ATBI banners was held during the opening of the said event.



PSAU bags awards on ATBI Masterclass Graduation

Cielo M. Guiao



PSAU's Sibul TBI completed the seven-month Agri-Aqua Technology Business Incubation Masterclass. Represented by Ms. Chonnie Cholla David, Sibul TBI Manager, and Ms. Jessa P. Nasarro, Project Technical Specialist received four awards at the ATBI Master Class Graduation on September 11, 2024, at the SMX Convention Center in Clark Freeport Zone, Pampanga.

Among the seven regions of the Batch 2 from the RAISE program, Sibul TBI won second place awards for the representative's presentations for both Operations Manual and Business Plan categories, and third place for the Feasibility Study.

Additionally, Ms. Nasarro was recognized as the Top Scorer in the master class post-test.

“

This masterclass provided us with the skills to implement sustainable practice. We now have the knowledge and expertise to make a real impact not just in our institutions but also in the industry.

Jessa Nasarro

”

Nasarro was also the representative for Luzon on the impressions and keynotes on the ATBI Masterclass; during her talk she quote Dr. Ruth Diego's famous line for the participants, '*There's no incubator if there's no incubatee.*'

The event was organized by the Department of Science and Technology's Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD) and the Agri-Aqua Business Incubation Network of the Philippines, Inc. (AABINPhil, Inc.).

It brought together researchers and incubators to help prepare the country for a more sustainable agri-aqua sector.



Sibul TBI Incubatee hailed champion at ASEAN Research Pitching

Patricia Mae Y. Guintu



Sibul TBI incubatee, Ms. Roselyn Santiago, BS Fisheries student of the University, secured first place in the ASEAN Research Pitching Competition held virtually on September 16 participated by student-researchers from the different SUCs of the nation.

Santiago's winning research project, titled "Cocoguard Biopesticides," garnered attention for its innovative approach to sustainable agriculture.

Her research focuses on developing eco-friendly biopesticides derived from coconut, aiming to address critical Sustainable Development Goals (SDGs) set by the United Nations.

The official awarding ceremony took place on September 17, 2024, at the Dr. Ernesto T. Nicdao Sports Center at Don Honorio Ventura State University (DHVSU).

Expressing her joy, Ms. Santiago stated that winning the competition has not only boosted her confidence but will also enhance her technological pursuits in - sustainable practices.

"This recognition motivates me to further develop my research and explore more innovative solutions," Santiago stated.

The ASEAN Research Pitching Competition was part of the broader 2024 ASEAN Festival Celebration, a collaborative initiative led by DHVSU in partnership with various state and local colleges across Central Luzon and the Cordillera Administrative Region (CAR).

Participating institutions included Tarlac Agricultural University (TAU), Ifugao State University (IFSU), Aurora State College of Technology (ASCOT), Bulacan Agricultural State College (BASC), Guagua Community College (GCC), and City College of San Fernando (CCSFP).



Roselyn's cocoguard biopesticides

MUCUNA PLANT EXTRACT FOR SEX REVERSAL

Reg. No.: 2/2022/051155

Mucuna Plant Extract for Sex Reversal is an innovative, sustainable solution for tilapia aquaculture, using the natural properties of *Mucuna pruriens* (velvet bean or "Sabawil" in the Philippines) to effectively produce male tilapia which grow faster, larger, and are more marketable.



Unlike costly synthetic hormones, this plant-based method offers a cost-effective, eco-friendly alternative that enhances commercial production by ensuring a predominantly male population for its target species. As the demand for sustainable aquaculture grows, this technology helps reduce production costs, supports plant-based fishmeal, and contributes to a more efficient and profitable tilapia farming industry.



GY CORNER

Technical feasibility: Production

Organic Matter
1.83%

Phosphorous
23.6 ppm

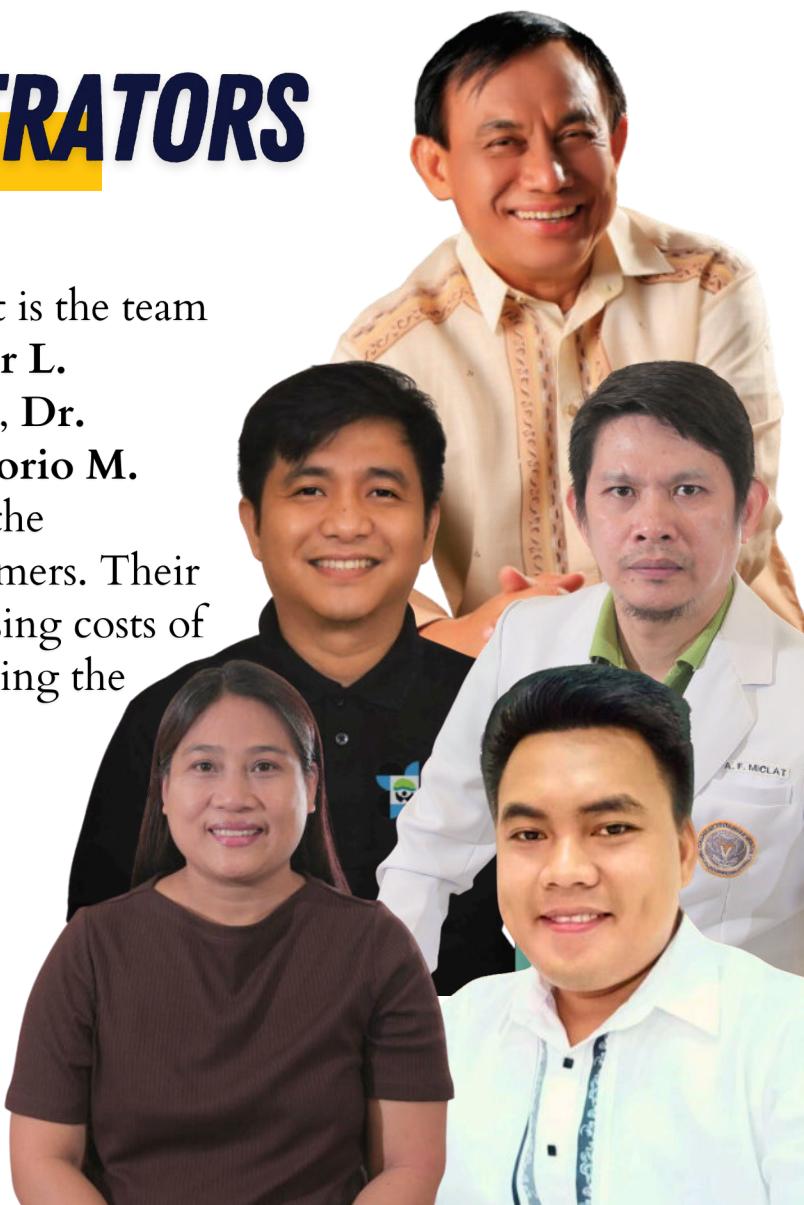
Potassium
500.0 ppm

- 1 Land preparation and planting
- 2 Harvesting
- 3 Feeding Management
- 4 Processing
- 5 Water Quality Monitoring



TECHNOLOGY GENERATORS

At the heart of this transformative project is the team of Dr. Dante M. Mendoza, Dir. Walter L. Pacunana, Dr. Rogelio D. Carandang, Dr. Celeste D. Gatus, and the late Dr. Honorio M. Soriano Jr., whose goal was to alleviate the challenges facing the country's tilapia farmers. Their work stems from a practical need—the rising costs of commercial fish feed—an issue that is hitting the livelihoods of many fish growers.



Sibul TBI joins GMP Seminar on Food Safety

Claudine C. Bucaled

Sibul TBI participated in a seminar on Good Manufacturing Practices (GMP) for food safety, held on August 7, 2024 at the Conference Hall in Jalung, Porac, Pampanga.

The seminar aimed to enhance local stakeholders' understanding of food safety protocols.

Led by Mr. Joshua Bon Ibarra, the Department Head of Tarlac State University, the event gathered participants from various sectors, including Sibul TBI personnel, Porac Farmers Cooperative and Association (FCAs), and Tarlac State University Center for Food Technology and Research (TSU-CFTR) personnel.

Ibarra emphasized the critical role of the food industry in protecting consumer health, stating, "*Food safety is non-negotiable. By implementing strong GMPs, we not only safeguard consumers but also build trust and reputation in the market.*"



Ibarra outlined the four main food safety hazards—chemical, physical, biological, and allergenic—and emphasized proper waste segregation to prevent cross-contamination, separating biodegradable, non-biodegradable, and plastic materials.

Participants shared their food processing experiences, raised questions, and gained insights to improve food safety practices.

Ibarra ended with a reminder of the importance of monitoring and control as the first defense against contamination, highlighting the need for equipment validation and calibration to meet safety standards.

Sibul TBI completes SULONG CL's Technopreneurship Masterclass

Rea Liza C. Peregrino

Sibul TBI represented by Ms. Cielo P. Guiao, Ms. Chariesse Navarro, Project Technical Assistant, and Ms. Rea Liza Peregrino, Project Technical Aide, participated in the Technopreneurship Masterclass on September 24 and 25, 2024 at Alumni Center, Tarlac State University, Lucinda Campus, Brgy. Binauganan, Tarlac City.

Engr. Dennis R. Dela Cruz, SULONG CL project leader, served as the resource speaker of the masterclass. He led the lectures, which focused on new approaches to teaching technopreneurship. Engr. Dela Cruz also discussed the important parts of starting a business by identifying market opportunities, and recognizing gaps and challenges before formulating solutions.



Guiao presented the MighTibig technology of PSAU, a meat tenderizer extract developed by Mr. Reniel Andallion made from Fig tree leaves extract.

Faculty and researchers from different institutions including Sibul TBI, PRMSU, BulSu BARAS TBI, AZURE program, BPSU Sinag, DOST-NEUST TBI, and the Local Government Unit (LGU) of Bulacan were in attendance in the said training workshop.



The masterclass workshop was facilitated by SULONG Central Luzon Start-up Consortium and Aurora-Zambales Start-up Readiness (AZURE) program, in collaboration with DOST TSU Aslagan TBI, aiming to provide participants the tools and strategies needed to foster innovation and support startups effectively.

Sibul TBI, PSAU Dep't of Fisheries lead training on smoked fish production

Jessa P. Nasarro

San Fernando, Pampanga – With the theme “From Catch to Cash: Smoked Fish Livelihood,” Sibul Technology Business Incubator (TBI) partnered with the PSAU Department of Fisheries Science and the City Agriculturist Office of San Fernando hosted a two-day training seminar on smoked fish production.

The event took place from July 22 to 23, with the first day held at the Heroes Hall of the City of San Fernando and the second day at the City Civic Center in Brgy. Del Rosario, Pampanga.

Dr. Cristina A. Sangumay, the City Agriculturist, spearheaded this initiative.

During the seminar, Sangumay emphasized the importance of diversifying income sources for local communities, highlighting how smoked fish can be a sustainable and profitable venture.

The training kicked off with a detailed overview of the training by Asst. Prof. Divine Reine S. Aquino, Chair of the PSAU Department of Fisheries Science. Aquino covered topics, including an introduction to fish processing, different methods for processing fish, and strategies for marketing fishery products.

Following Aquino's session, Mr. Ronnel Bryan R. Javier, Manager of the PSAU BFAR Tilapia Hatchery, elaborated on the intricacies of the smoked fish production process specifically focusing on the making of tinapa (smoked fish), and highlighting the multiple opportunities available within the fish processing industry.

The second day featured a session led by Assoc. Prof. Walter L. Pacunana, Director of OOI and Project Leader of the Sibul TBI.

Pacunana focused on computing simple cost and return analysis, alongside discussing various opportunities available through the Sibul TBI for those who want to be an incubatee.

Afterwards, the team conducted a hands-on session where participants engaged in the practical aspects of smoked fish production, gaining valuable skills and insights into the industry.

Before the 2-day training ends, the City of Agriculturist Office distributed smoked houses to the participants for them to have a kickstart in their business venture.



Sibul TBI meets the Bureau of Fisheries and Aquatic Resources (BFAR) Region III for future partnerships

Maricel B. Ramos



Sibul TBI visited the Bureau of Fisheries and Aquatic Resources (BFAR) Region III Office in July 12 to seek assistance and collaboration for the five Sibul TBI incubatees who are currently competing in the 2024 Young Farmers Challenge (YFC) organized by the Department of Agriculture (DA).

The five incubatees, namely Marjorie Lansang, Marvie Jake Torero, Jomar Lacap, Roselyn Santiago, and Reymark Reyes are into aquaculture food processing.

During the roundtable discussion, Sibul TBI asked the BFAR Region III for a free of cost training seminars, and activities related to post-harvest practices, and biofloc farming for catfish.

For their part, BFAR personnel said that they can provide trainers, and speakers at no cost, and they can also lend some equipment that will be needed during the training sessions.

However, they kindly note that the raw materials required for the training sessions must be shouldered by the training organizers.

Ways forward, the planned activities of Sibul TBI and BFAR Region III aims to strengthen the knowledge of the five aspiring young farmer entrepreneurs in post-harvest practices and processes applied to fish and other aquatic products to ensure the quality, safety, and marketability.

Sibul TBI benchmarks Tarlac State University

Queency Eurranne G. Castillo



Sibul TBI headed over Tarlac State University - Center for Food Technology and Research (TSU-CFTR) and Aslagan-Technology Business Incubator (TBI) in July 18 to benchmark their best practices including their operations, programs, and services for the students, faculties, and external clients especially MSMEs.

Dir. Walter L. Pacunana, OOI Director, said the benchmarking activity “builds partnership and collaboration among the key players in the academe and innovation ecosystem.”

Dir. Pacunana mentioned during his talk, “Success comes from collaborations, so let us use our strengths to complement each other’s weaknesses.”

On one hand, Dr. Leah T. Matias, the Director of CFTR, and the CFTR department heads provided a thorough discussion about their facility and equipment rentals, technical advisory consultancy and food-related seminars, food safety essentials, and their good manufacturing practices.

Also, Aslagan TBI presented their currently enrolled incubatees, incubation services, IP management, and technology transfer mechanism.

It can be recalled that Sibul TBI and TSU-CFTR conducts collaborative training, aiming to help the farmers, and agripreneurs receive their GAP certification, and FDA License to Operate (LTO).

WHY INNOVATE



Gloomy Rain C. Domingo

“Innovation is a seed for growth.”

Initiatives in creating a strong foundation of food security and livelihood for every Filipino are crucial. Through innovation, government and private agencies strive to bring a sustainable ecosystem of resources to the Philippines, resulting in back-to-back collaborations to assure that we are provided with our needs.

As Agriculture, Aquatic, and Natural Resources (AANR) is one of the essential sectors in the country, its Research and Development (R&D) in SUCs and LGUs are further ignited. In fact, an updated Harmonized National Research and Development Agenda (HNRDA-AANR) was launched in October 2021. This agenda aims to further empower AANR through implementing projects within a seven-year timeline (2022-2028). According to the agenda, AANR strategic thrusts focused on providing food security, value chain development for livelihood and income generation, as well as a sustainable environment and natural resources.

Thus, as the leader of these initiatives, DOST-PCAARRD actively engaged in implementing programs, building facilities, and developing human resources to enable locals' innovation initiatives and generate information and technologies in the AANR sector across the country. From crops, livestock, inland and marine aquatic resources, farming systems, forestry and the environment sector to Agriculture 4.0 (smart farming) technologies, we are savoring its rich outputs.

For instance, in the recent CoViD-19 pandemic period, supplies of food and PPEs were in demand. Through the *GALING-PCAARRD Kontra CoViD-19* program, food production and livelihood projects, namely Gulayan sa Pamayanan, Tilapia para sa Pamayanan, and Manok at Itlog para sa Pamayanan, were immediately launched in various barangays.

As reported in the Philippine Information Agency (PIA), 19 barangays in NCR benefited from the developed “urban gardening technologies” of UPLB, such as the “Enriched Potting Preparation (EPP)” and “Simple Nutrient Addition Program (SNAP) Hydroponics,” for accessible supplies of greens. Meanwhile, 31 residents from Ilocos Sur were trained with various productions of tilapia value-added, such as ice cream, Longganisa, kropeck, and bagoong, that they can adopt to generate income. In addition, communities in regions 3, 4A, 6, 9, 11, and 12 received stocks of high-quality ‘ItikPINAS’ eggs and after the pandemic, layer ducklings and ZamPen native chickens were distributed to the locals in Zamboanga.

Department of Science and Technology
Philippine Council for Agriculture, Aquatic and Natural
Resources Research and Development

GALÍNG-PCAARRD:
Kontra COVID-19 Program



More to mention was the development of "natural personal care products" includes the ALCOCO hand sanitizer (made from coconut ethyl alcohol) by Philippine Craft Distillers, Inc. (PCDI). Philippine Coconut Authority (PCA) Administrator Benjamin Madrigal, Jr. praised this innovation for its potential to reduce ethyl alcohol imports and benefit 3.5 million coconut farmers. Additional technologies from the DOST-FPRDI and DOST-PCAARRD program, such as bamboo, tawa tawa, and sapang-based antimicrobial liquids and hand soaps, as well as bamboo-abaca hands-free disinfectant dispensers and foot baths, have been distributed to LGUs and hospitals nationwide.



PSAU OFFICE OF INNOVATION AS ACTIVE AANR PROPONENTS

Along with GALING-PCAARRD, R&Ds in the AANR sector are cradling in one of the early products of initiatives in technology transfer, IPTBM and ATBI. As stated in HDRNA-AANR, its agenda is to innovate traditional extension modalities for the efficient transfer of technologies to end-users, upscaling and outscaling of agricultural technology transfer and commercialization through various modalities, as well as leveraging technologies for building resilience and supporting economic recovery.

Hence, aside from offering courses in line with AANR, such as Biology, Agroforestry, and Fisheries Science, PSAU enthusiastically welcomed the establishment of IPTBM and Sibul TBI on its premises through DOST-PCAARRD and DA-BAR to strengthen intellectual property management and protection and technology transfer and commercialization of the R&Ds of the University's stakeholders.

As of 2018, IPTBM has already applied for 122 intellectual properties, wherein 83 are registered (39 patent/UM, 38 copyright, 6 trademark), while 39 are still in the process of review on IPOPHL. Meanwhile, as of 2022, Sibul TBI is supporting 19 incubatees on startup, and assisting roughly ten (10) incubatees on commercialization. Currently, the unit is negotiating with another four (4) new incubatees. Moreover, the said facilities have widely showcased PSAU technologies on various AANR exhibits; in this way, it gives exceptional confidence to the generators to further commercialize their technologies. Heretofore, PSAU has actively performed its role to continuously promote the importance of AANR and encourage its stakeholders to fuel the flames of innovation.

Indeed, innovation is a seed for growth—a stimulator for potentiality to achieve a sustainable AANR ecosystem in the Philippines.

Toward an innovation-driven learning community



WHY PROTECT OUR IPs



Ma. Franceska G. Yumang

We often hear stories of individuals who lament the theft of their ideas and inventions. It is undoubtedly frustrating to see others profit from the fruits of your hard work. Intellectual property (IP) theft can harm individuals, businesses, and governments that have invested significant time and resources into developing their creations. On a larger scale, IP theft undermines innovation and stifles economic growth.

Filipinos are inherently creative and innovative thinkers. Yet, many remain unaware of the critical importance of legally protecting what is rightfully theirs. In fact, the Property Rights Alliance ranked our country 85th out of 125 assessed nations on the 2023 Intellectual Property Rights Index (IPRI).

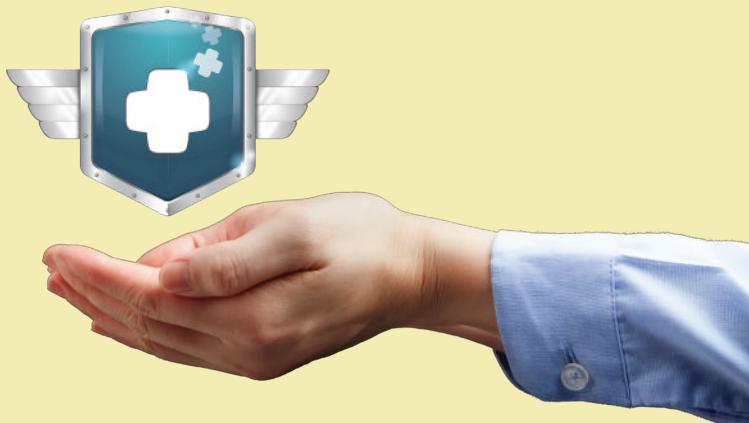


As a result, many Filipino creators are missing out on the full benefits of their intellectual property rights (IPR), which grant legal protections to inventors and creators for their work over a specified period. Additionally, incidents of IP violations and infringement have become increasingly prevalent in media and online discussions.

Thus, now, and not later, is the perfect time to protect our IPs. Here are some of the reasons why we should pursue our IP rights:

IPR Safeguards Your Creations

IPR provides inventors and creators with exclusive legal protections for their innovations for a specific period. In the Philippines, as well as globally, these rights are typically granted on a “first-to-file” basis. This means that the first person to file a patent application for an invention holds the rights, regardless of when the invention was actually created. There are many instances where inventors assert that another party has wrongfully claimed their invention. However, if the other party filed first, they legally own the rights to that IP. To protect your work, it's crucial to file for IP rights before making any public disclosures. Doing so compellingly reduces the risk of others profiting from your ideas and ensures that your creations are securely protected.



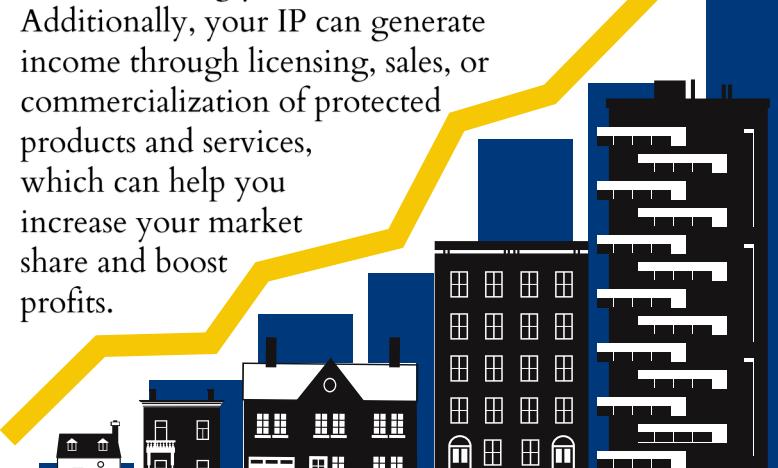
IPR Cultivates Economic Development

Generally, the world's trends set IP protection as crucial for national economic policies. Governments must make important decisions about how to create effective IP systems that meet their goals, especially as technology and business models evolve.

According to the World Intellectual Property Organization (WIPO), in 2022, economically advanced countries like China, Japan, and the United States led the world in IP filing activity.

On a more personal level, protecting your IP allows you to fully benefit from your creations while preventing others from using them without permission. With solid IP protection, you can confidently market and commercialize your work, knowing your ideas are secure.

Additionally, your IP can generate income through licensing, sales, or commercialization of protected products and services, which can help you increase your market share and boost profits.



IPR Protects Your Work against Violations

Having legal rights to your IP is like having a shield for your creative and innovative efforts. These rights establish you as the rightful owner of your work, granting you exclusive control over how it's used and shared.

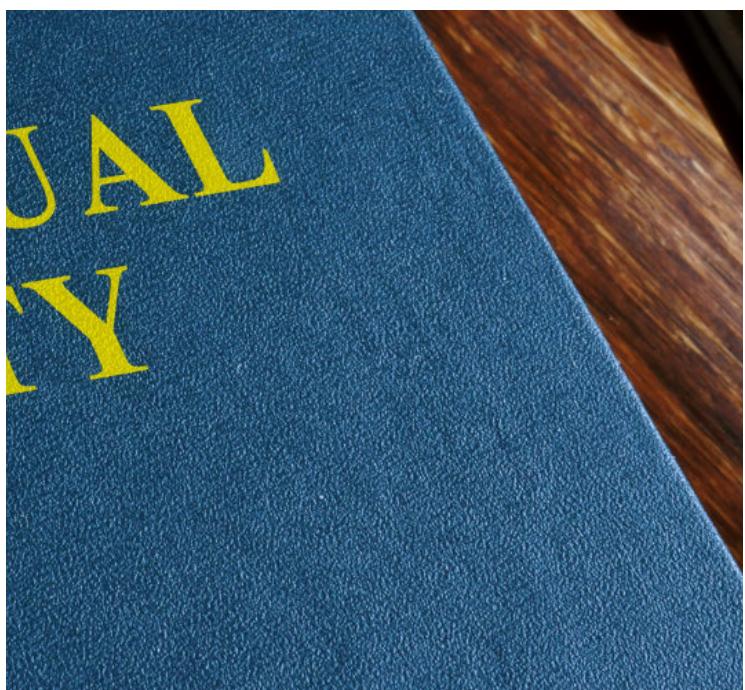
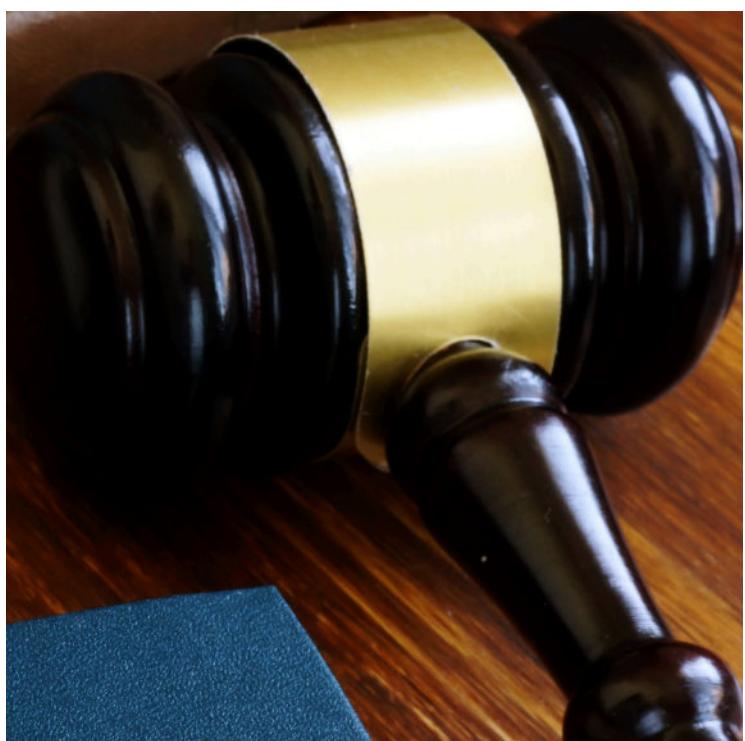
Moreover, our country's law in line with IP protection is with teeth. The 1987 Philippine Constitution recognizes the importance of intellectual property in Article XIV, Section 13, stating:

“The State shall protect and secure the exclusive rights of scientists, inventors, artists, and other gifted citizens to their intellectual property and creations, particularly when beneficial to the people, for such period as may be provided by law.”

In line with this constitutional commitment and various international conventions, the Philippine government consolidated existing intellectual property laws in 1997. This effort resulted in the passage and enforcement of Republic Act 8293, known as the Intellectual Property Code, in 1998.

Under Part IV of RA 8293, individuals found guilty of infringing on these rights face significant penalties. Offenders may be subject to imprisonment of up to nine years and fines ranging from P50,000 to P1.5 million, depending on the severity and frequency of the offenses. Additional provisions for subsidiary imprisonment apply if the offender is unable to pay the fines.

Given these advantages, it is indeed timely for us to consider the protection of our IPs as soon as possible before it is too late. One of the mandates of the Office of Innovation is to assist PSAU stakeholders and other beneficiaries with the relevant expertise aligning with their IP rights. Together, we stand alongside every Filipino inventor and creative who are committed to safeguarding their rights and supporting their contributions to the betterment of our communities, and ultimately, our nation.



IPTBM Technology Licensing (TL) Unit

Do you have technologies with potential value? Or are you interested to invest in one of our university technologies? Let us help you!

1

Application & Negotiation of Terms...

The requesting party or prospective technology adopter shall submit letter of intent to the head of the university.



Technology Needs Assessment...

TLU shall facilitate ocular inspection to match technology needs based on existing resources



3

Preparation and execution of the licensing terms and agreements...

The TLU shall present to the prospective technology adopter the documents for review before both parties proceed to the signing of the drafted agreements.



5

Technology transfer and business incubation...

TLU will assist you for the deployment, extension, and commercialization of the technology.



Secure the Fairness Opinion Report...

The university shall submit a written request to the DOST Secretary to secure a FOR.

4

Sibul Technology Business Incubator (TBI)

Do you wish to become an agripreneur? Or do you want to venture technologies in agriculture, aquaculture, and food processing? Apply now in the incubation program of the Sibul agri-aqua technology business incubator!

1

Submission of documentary requirements...



2

Selection & screening process...



3

Admission process...



4

MOA signing...



5

On-boarding & orientation...



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Magalang 2011, Pampanga

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