SDG 9. Industry, Innovation and Infrastructure

Smart agriculture and technological innovation



One of the biggest contributions TAU has made to SDG 9 is continuing to innovate smart agricultural technologies. On April 21st 2025 TAU joined in with local celebrations for National Innovation Day. Technology experts, staff members and students came together to attend.

The event discussed how generative artificial intelligence can be used to manage crops, making resources efficient and using biotech to help increase root crop production. This showed how the university pushes students and staff to create technologies that can aid agriculture. The event also showcased how atmometers can be used in irrigation systems and student projects made in hackathons.

A standout achievement was the TAU research into smart onion farming which won the Best Presentation Award at the 6th Asia Joint Conference on Computing on April 21st-24th 2025. This was funded by DOST and focused on creating smart technologies to increase profitable onion production. The research used IoT devices to monitor, automated irrigation and smart vertical farming. The study found that there were 40% more profits and 30% less water consumption than using traditional layered farming methods. This shows how technology can be used to help increase productivity in agriculture while saving resources. This was highly relevant to SDG 9 as it shows how research and digital technologies can be used to increase modernisation in an important productive industry.



SDG 9. Industry, Innovation and Infrastructure

Sustainable industrial development throught engineered bamboo

Another key aspect of TAU's efforts under SDG-9 is their engineered bamboo project. This allows sustainable raw materials and creates linkages between agriculture, processing, and product development.

During the 2025 National Science, Technology, and Innovation Week (November 12-14, Malolos, Bulacan), TAU highlighted their Ebamboo facility. They demonstrated how engineered bamboo planks could create long-lasting and eco-friendly products. Their smart agriculture and root crop research facilities were also highlighted during the event.

This shows that agricultural research institutions can play a role in sustainable industrialization by looking into ways to create value from locally available resources. While creating new products, they may also provide opportunities for new livelihoods, small enterprises, and stronger production systems within the region. However, the university did not specify the number of livelihoods and enterprises created during 2025 from their bamboo initiative.

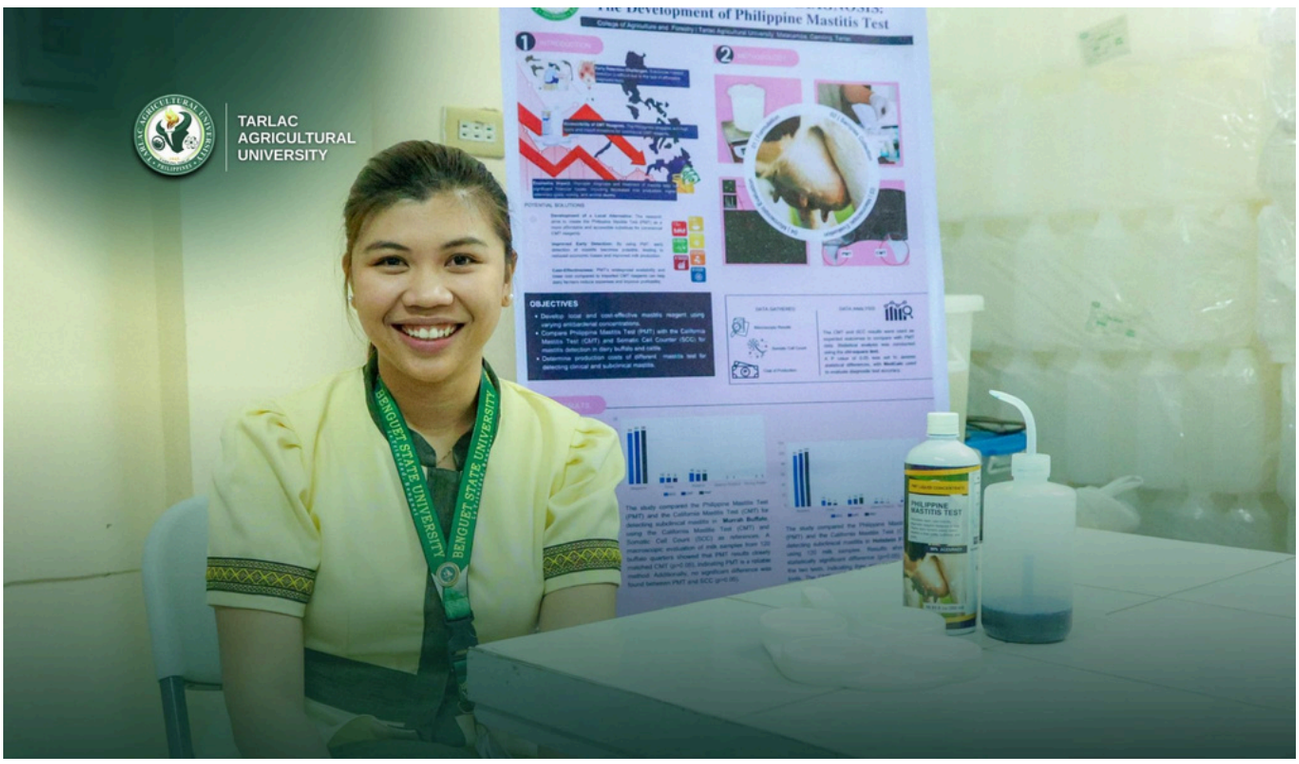


9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

SDG 9. Industry, Innovation and Infrastructure

Highlights

DOST-funded Philippine Mastitis Test Project



TAU conducted the project “Mooving-Forward with the Philippine Mastitis Test” with the funding from DOST-TECHNiCOM amounting to ₱3,778,174 for the development of an economical diagnostic reagent for the detection of mastitis among dairy cattle. According to TAU, a Mastitis Testing Center has been established and early adaptation of the technology has been done outside Tarlac.

Notably, this initiative established the only Mastitis Testing Center in the Philippines, positioning TAU at the forefront of dairy health diagnostics and innovation. Since its implementation, the technology has already gained traction beyond Tarlac, with early adopters from the neighboring province of Pangasinan, reflecting the growing demand for affordable mastitis detection solutions among dairy communities.

The project is spearheaded by Ms. Catherine Diane DG. Robillos, Instructor at the College of Agriculture and Forestry (CAF), with the support of Mr. Ronaldo A. Briones, Project Technical Staff III and CAF faculty member. Together with the research team, they are dedicated to transforming scientific research into farm-ready technologies that directly respond to the pressing needs of dairy farmers, particularly in the region.



SDG 9. Industry, Innovation and Infrastructure



The Intellectual Property and Technology Business Management (IPTBM) Office of Tarlac Agricultural University (TAU) is now officially unveiled in a ceremonial program that happened inside the Gilberto O. Teodoro Multipurpose Center on December 15, 2025.

The launching of the office's marker is an important milestone for the advancement of the University's innovation ecosystem that will help in protecting, managing, and commercializing the outputs from research and technology efforts of TAU.

The ceremony, which was presided over by University President Dr. Silverio Ramon DC. Salunson, highlighted key presentations that would give information on the establishment of the office. DRD Director Dr. Maria Elena T. Caguioa gave the reason and background of the project while Dr. Jay-ar A. de Mayo and his team discussed the framework and highlights of the IPTBM Office. An important portion of the event was the message of commitment given by some important partners of the project.

The following are present: Dir. Reynaldo V. Ebora, DOST-PCAARD; Dir. Noel A. Catibog, TIPD-PCAARD; Dr. Pablo J. Rafael, Jr., Program Leader of RAISE Control Luzon; Dir. Walter L. Pacunana, Project Leader of RAISE-CL Project 1; Ms. Karen Y. Danez of PSTD DOST-Tarlac; Ms. Aillen Uy-Chan of PCCI-Tarlac as represented by Mr. Maiko Pascual, Secretary of PCCI-Tarlac.



SDG 9. Industry, Innovation and Infrastructure

TAU benchmarks KIST Ecozones and joins DOST's Inno.Venta



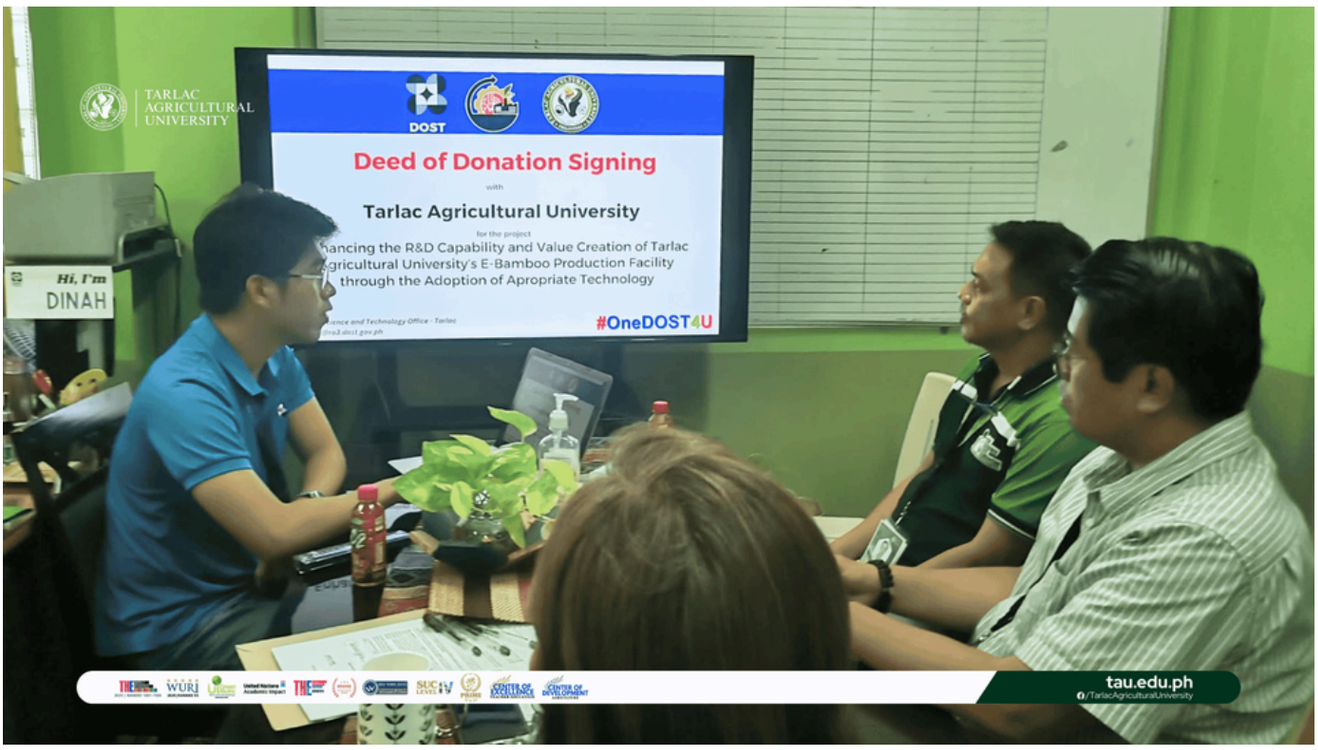
As part of TAU's continuing quest for innovations and quality assurance, the Tarlac Agricultural University (TAU) conducted a formal visit to the recently established Knowledge, Innovation, Science and Technology (KIST) Ecozone located at the De La Salle University (DLSU) - Laguna Campus on 21-22 October, as well as an activity where TAU interacts with industry players and investors at the Batangas State University (BatStateU) on 23-25 October, 2025.

The KIST Program, an initiative of the Department of Science and Technology (DOST) - CALABARZON located at the DLSU Laguna Campus, is a five-hectare Innovation Hub that is responsible for connecting researchers on technology, knowledge, and economic development. During the visit, TAU delegates including Dr. Leonell P. Lijauco, Vice President for Planning and Quality Assurance (VPPQA); Dr. Eugene S. Valeriano, Director of Planning and Development Office (PDO); Engr. Rochel E. Vibar, Chief of Infrastructure Development, Land Use and Zoning (IDLUZ); and Dr. Maria Elena T. Caguioa, Director of the Department of Research and Development (DRD), together with representatives of other Higher Education Institutions (HEIs), were welcomed by Dr. Jonathan R. Dungca, Vice President of DLSU Laguna Campus, followed by a dynamic engagement and tour presentation of the DLSU Innovation Hub Development conducted by Mr. Robespierre C. Porsovigan, DLSU Business Development Manager, and Ms. Lenor Coreen D. Aguinaldo, DLSU Executive Officer.



SDG 9. Industry, Innovation and Infrastructure

Enhancing TAU's eBamboo Production Facility throught Appropriate Technology



In a progressive way to advance Science and Technology related activities, the Tarlac Agricultural University (TAU) President Dr. Silverio Ramon DC. Salunson formally receives the approval of the Department of Science and Technology (DOST) - Regional Office III in its proposal entitled "Enhancing the R&D Capability and Value Creation of TAU's E-Bamboo Production Facility through the Adoption of Appropriate Technology" and signs the Deed of Donation at the DOST Tarlac Office, 9 September.

The DOST - Regional Office III under the leadership of Dr. Julius Caesar V. Sicat, CESO III, affirms its commitment in supporting institutions like TAU in advancing sustainable production and developing the bamboo industry in the region.

