

Annual Report on SDG2 Zero Hunger

2.5 National Hunger

2.5.1 University support for farmers: food security, sustainable agriculture, and aquaculture knowledge/technology

Thaksin University recognizes **food security** as a fundamental element of sustainable development and aligns its mission closely with **Sustainable Development Goal 2 (SDG 2): Zero Hunger** — to end hunger, achieve food security, improve nutrition, and promote sustainable agriculture. The university acknowledges that food security is not only about providing sufficient food, but also ensuring **safe, nutritious, and sustainably produced food** that supports community well-being and long-term ecological balance. To achieve this, Thaksin University has integrated food security and sustainable agriculture into its **institutional policies**, covering **education, research, community engagement, and innovation**. These efforts are part of the university's broader policy direction that emphasizes **the use of science, technology, and innovation to strengthen local communities and regional food systems**. The project uses technology to develop food products and disseminates knowledge to local innovators as follows:

Project on Promoting Tissue Culture Technology for Plant Propagation and Utilization

Date: July 25, 2024

Location: Khok Muang Subdistrict, Khao Chaison District, Phatthalung Province

The **Tissue Culture Laboratory**, Faculty of Science and Digital Innovation, **Thaksin University**, organized a knowledge transfer project on **tissue culture technology** for the **Khok Muang Subdistrict Municipality**. The project aimed to promote advanced plant propagation methods and sustainable agricultural practices. As part of the project, **500 tissue-cultured banana saplings (Namwa variety)** were developed and distributed to local farmers for intercropping in rubber plantations and agricultural areas. The initiative also connected farmers with local entrepreneurs who would purchase the produce, creating a sustainable value chain. This activity

represents the integration of academic research and local wisdom to enhance crop quality, ensuring stronger and disease-resistant banana varieties. The project contributes to **food safety** and strengthens **local food security** through community empowerment and sustainable agricultural innovation.



Furthermore, Thaksin University has conducted research under the project "Research and Innovation for Comprehensive and Accurate Poverty Alleviation in Phatthalung Province" with the support of the Area-based Development Fund Management Unit (BPT) in collaboration with local organizations, government agencies, and social welfare networks in Phatthalung Province.

Public Evidence: <https://scidi.tsu.ac.th/activity/274>

Project on Quality Egg Production by Thaksin University Researchers

Date: February 23, 2024

Location: Chaiburi Subdistrict, Phatthalung Province

The Quality Egg Production Project was initiated by researchers from Thaksin University to transfer scientific knowledge and practical skills to local residents and vulnerable groups. The project supports the development of “Chaiburi Happy Farm”, a community-based egg farm where hens are raised in a stress-free environment to produce high-quality eggs. This initiative was established through a collaboration among multiple partners, including the Phatthalung Provincial Office of Social Development and Human Security, Chaiburi Subdistrict Administrative Organization, Chaiburi Subdistrict Community Welfare Fund, and the Phatthalung Community Welfare Network. Together, these organizations co-invested to create a sustainable and mutually supportive agricultural business model. Goals of the Chaiburi Happy Farm:

1. To create employment opportunities for vulnerable groups.
2. To serve as a vocational learning center for local communities.
3. To provide a source of safe and healthy food for the community.
4. To return profits to the members of the Chaiburi Subdistrict Community Welfare Fund.

This project demonstrates how academic research can be integrated with community welfare and local collaboration to strengthen social well-being, food security, and sustainable livelihoods in Phatthalung Province. On February 23, 2024, researchers from Thaksin University, in collaboration with the Chaiburi Subdistrict Area-Based Development Management Team, organized a training and knowledge exchange activity on “Happy-Laying Hen Farming” at the Chaiburi Subdistrict Administrative Organization, Mueang District, Phatthalung Province. This activity was part of the project “Upgrading the Local Economy through a Community Business Model Based on the Khao-Na (Mountain–Field) Ecological System in Phatthalung Province”, under the Third Year of the Research and Innovation Program for Comprehensive and Precise Poverty Alleviation in Phatthalung Province, supported by the Program Management Unit for Area-Based Development (PMU-A) and the Science, Research and Innovation Promotion Fund (TSRI Fund).



Public Evidence: <https://www.tsu.ac.th/home/details.php?aNum=20240223170537&id=3329&gid=2>

Bang Kaeo Model Research Project

Date: November 22, 2024

Location: Wat Lon School, Khok Sak Subdistrict, Bang Kaeo District, Phatthalung Province

The Bang Kaeo Model Research Project: Local Fisheries for Poverty Alleviation, in collaboration with Wat Lon School, Khok Sak Subdistrict, Bang Kaeo District, Phatthalung Province, celebrated the **first harvest** from its **mushroom cultivation activity**, which involved **400 oyster mushroom blocks** cared for by students and teachers. The yield was excellent, with the mushrooms being used as part of the **school lunch program** and also **sold for income generation**. Moreover, the project inspired ideas for **developing value-added products** from oyster mushrooms in the future. In addition, **training and knowledge-sharing activities** on **fisheries and fish farming** were conducted, enabling students to **raise catfish** for **school lunches**. This initiative reflects the concept of “Education for Career Development,” aiming to **address local economic challenges** and **enhance the quality of life** within the community.



Public Evidence: <https://www.tsu.ac.th/home/details.php?id=5207>