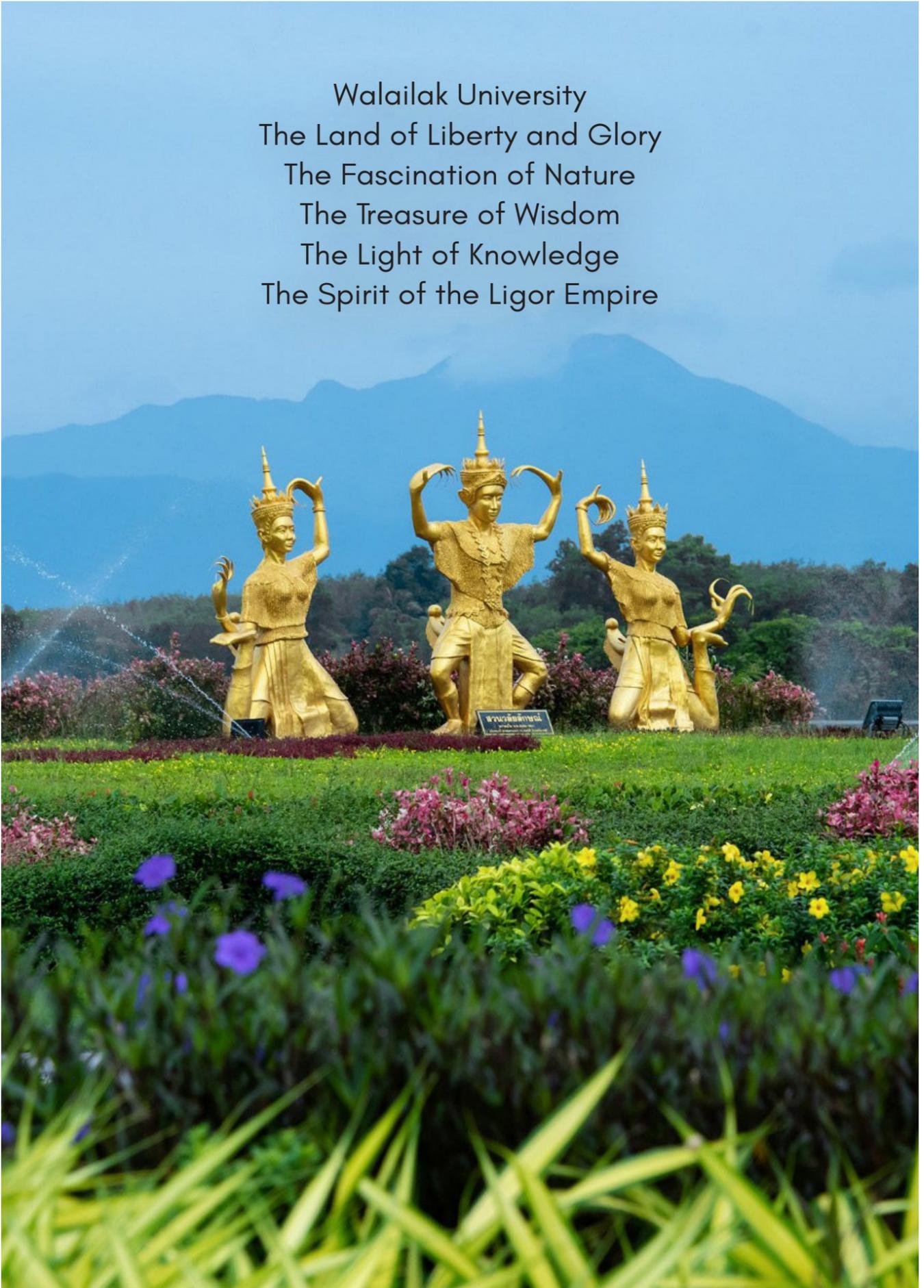


Walailak University  
The Land of Liberty and Glory  
The Fascination of Nature  
The Treasure of Wisdom  
The Light of Knowledge  
The Spirit of the Ligor Empire



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## INTRODUCTION FROM THE PRESIDENT

### “Walailak University is firmly dedicated to achieving and tackling the United Nations Sustainable Development Goals.”

The events of the past two years have underscored both the resilience and fragility of higher education due to the outbreak of the Corona Virus 2019 (COVID-19). However, Walailak University was no exception and was also affected to a certain degree in regard to teaching and learning, including social engagement to provide new and effective ways of developing, transmitting, and applying knowledge for the local, regional, and national communities during this difficult time. 2023 is another golden year in which Walailak University was successfully ranked in THE World University Rankings (WUR), which placed the university at 1501+. In addition, Walailak University has heightened a significant world university ranking milestone in its 31-year history, rising from the band of 1501+ in 2023 Times Higher Education World University Rankings (2023 THE WUR) to the 2024 THE WUR band of 1201-1500 among 1,904 research-intensive universities.

Besides the (THE) World University Ranking, the 2023 THE Impact Rankings awarded Walailak University a global rank of 401-600. The university's best four THE impact ranking performances among the top 100 worldwide included the following: SDG2 Zero Hunger (56<sup>th</sup> place), SDG6 Clean Water and Sanitation (52<sup>nd</sup> place), SDG11 Sustainable Cities and Communities (99<sup>th</sup> place), and SDG14 Life Below Water (58<sup>th</sup> place).

Since 2015, the United Nations' 17 Sustainable Development Goals (SDGs) have been our primary mission as we strive to be a Global Frontier Research University to drive positive changes, create sustainable impacts, and improve the quality of life for Thai people and the international community through our research, education, and academic services.

I am pleased to share this report as a snapshot of Walailak University's contribution to the achievement of the SDGs. It highlights initiatives and projects led by our students, staff and community partners to enhance a more inclusive, healthy, and sustainable planet. Even though we have made significant progress on sustainable impacts, we realize that there are many things to be done in order for us to fully play a significant role in tackling the world's SDGs by 2030.



*S. Thamrong*

**Professor Dr. Sombat Thamrongthanyawong**  
Acting President of Walailak University





**Thai Buri Building**



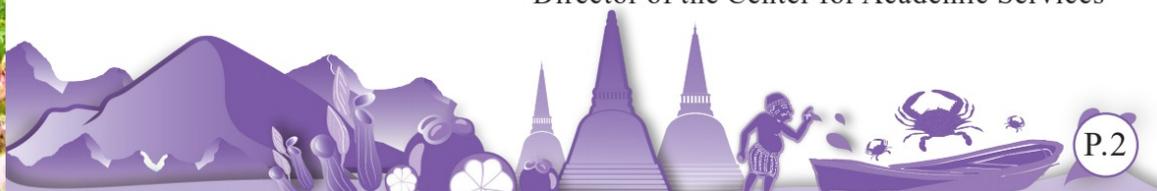
## MESSAGE FROM CAS DIRECTOR

**“Even though the Center for Academic Services (CAS) has been facing challenges caused by external factors like the coronavirus outbreak (COVID-19), we continually create SDG projects for local, regional, national, and global communities.”**

The Center for Academic Services is a sector of Walailak University responsible for providing social and community engagement projects. This truly reveals the profound obligation of Walailak University to be committed to social responsibility, social stewardship, teaching and sustainable development. We have been offering academic services and practical activities by applying the SDGs lens and the WU Happy Tree model with a holistic approach to benefit society across various academic fields, such as agriculture, tourism, aquaculture, healthcare, animal husbandry, environmental science and technology, and so on. For years, we have strengthened partnerships with national and international communities, stakeholders, NGOs, and local and national government organizations to drive positive changes and sustainable development. In addition, we will never stop developing new projects, accelerating innovations, and finding new solutions to tackle the SDGs. One of our predominant projects implemented by the CAS that causes significant impacts on the recovery of marine animal populations and ecosystems is the “Blue Crab Bank” project, which is consistent with SDG 14: Life Below Water. Besides the conservation purpose, compared to the past, this momentous project successfully boosts the local economy as the local fishermen are able to catch a higher quantity of blue crabs, coinciding with SDG 1: No Poverty. We believe that achieving sustainable development requires everybody to get involved and play their part. This is one of the missions we are pursuing in order to lay a solid foundation for our society and form collaborative partnerships for a better present and future for all.



**Assistant Professor Dr. Amonsak Sawusdee**  
Director of the Center for Academic Services



# ABOUT WALAILAK UNIVERSITY



March 29th, 2022 marked 30 years since Walailak University was established. For over 30 years, we have facilitated many progressive steps of development and advancement through aspects through the prism of research and innovation, stewardship, outreach, and teaching.

Walailak University has been adopting the United Kingdom Professional Standard Framework known as UKPSF from the United Kingdom to strengthen the analytical and synthesis skills of the students. All lecturers (100%) at Walailak University have been trained on the UKPSF framework at a variety of levels, ranging from Associate Fellow, Fellow, Senior Fellow, and Principal Fellow. Currently, Walailak University is the only university in Thailand that declares that all subjects are instructed under the UKPSF framework. Walailak University also hosts the largest number of UKPSF-certified academic staff.

At the moment, Walailak University has been reinvented as one of the brightest stars among global and frontier research universities in Thailand, with good governance, and a cutting-edge body of knowledge for critical problems facing the nation and the world. As a Global and Frontier Research University, grouped by Thailand's Ministry of Higher Education, Science, Research and Innovation, Walailak University's high-impact publications in Q1 and Q2 journals have improved from 72 in 2017 to 433 in 2022. Walailak University's publications in the Scopus database reached 81.8%, 3<sup>rd</sup> in Thailand. More importantly, in 2023, WU's academic publication in Q1 and Q2 journals in the Scopus database reached 90%, 1<sup>st</sup> in Thailand.

2022 is also another year in which Walailak University (WU) moved up to the range 101-200 globally in SGD 2: Zero hunger and SDG14: Life below water, according to the 2022 Times Higher Education Impact Rankings. In addition, Walailak University has made significant progress in the world's recognition of its contributions to the United Nations Sustainable Development Goals, moving up to the 401-600 band in the 2023 Times Higher Education Impact Rankings among 1,591 participating universities worldwide across 112 countries/regions. The university's best four THE impact ranking performances among the top 100 worldwide included the following: SDG2 Zero Hunger (56<sup>th</sup> place), SDG6 Clean Water and Sanitation (52<sup>nd</sup> place), SDG11 Sustainable Cities and Communities (99<sup>th</sup> place), and SDG14 Life Below Water (58<sup>th</sup> place).



## VISION

To be an institution of good governance, to be a leading source of knowledge, the best local and the excellent in the global.

## ASPIRATION

We aspire to explore, search for, preserve and transfer knowledge in order to generate and maintain our academic improvement and excellence. This aspiration aims to bring forth the citizens with knowledge and virtue for the never-ending benefit of the nation and mankind. We are strongly committed to building a graduate embedding the following qualifications.

1. To become an up-to-date citizen of national and global, that possesses democratic ideology, great knowledge and wide perspectives. 2. To be an academic or vocational expert with knowledge, capacity and skills in the interested fields and can efficiently apply those in their profession. 3. To be a graduate who has consciousness, morality and work ethic.

## MISSION

Walailak University has 4 main missions as the followings:

- ◆ To produce and develop the labor to deliver the international standard and the needs in developing the national economy and society
- ◆ To study, explore, research and develop the new knowledge that will create quality graduates who are efficient in becoming self-reliant and also excellent in international competition
- ◆ To provide academic services to the public and private sectors including giving consultancy, and suggestions for research, development, technology and surveys. We also offer training and development to cultivate the innovation for economic and social development of the nation and region
- ◆ To conserve and restore the arts and cultural heritage including customs, traditions, pure art and applied arts to set the example for the locals as a comprehensive learning institution.

For more information, please visit the university website: [www.wu.ac.th](http://www.wu.ac.th) 



# SUSTAINABILITY AGENDA AT WALAILAK UNIVERSITY



## Research and Innovation



**Blue Crab Bank Project**



**Krabi Model: Generating Sustainable Income for Farmers**



**Trichoderma 5 Plus**



**The Community-based Rehabilitation Project for the Elderly**



**The Livable Community-building Model of the Community Leadership Council Network in the Upper Southern Region of Thailand**



**3-step Biogas Production System from Organic Wastewater in Industrial Plants (3S-ASBR)**



**Placental Membrane for Treating an Eye Disease**



**Freezing Oil Palm Wood with No Surface Collapses**



**Ligor Chicken**



**Thai Eco Font**

## Outreach and Engagement



## Stewardship



**Biological Wastewater Treatment and Water Reuse Guidelines**



**Green WU**



**Policy on Food Preparation and Sustainable Consumption**



**Walailak Botanic Park: Biodiversity Conservation Center**



**Solar Panel**



**Electric Shuttle Bus**

## Teaching



**The United Kingdom Professional Standards Framework (UKPSF)**



**Subjects and Courses based on SDGs**



**Lifelong Learning**



**Smart Classroom**



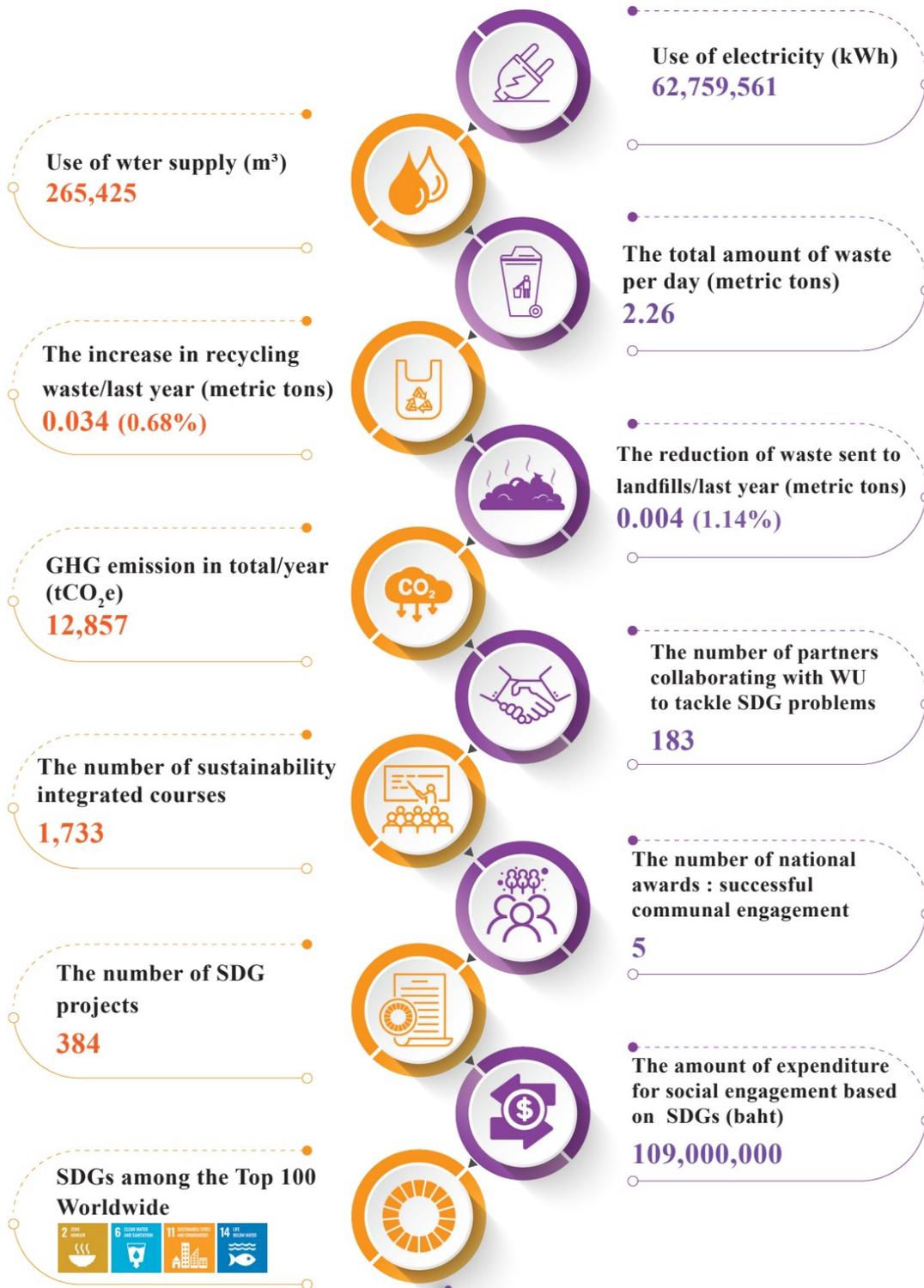
**Smart Laboratory**



**Digital University**



# DATA OVERVIEW AT A GLANCE



## WU Happy Tree Model integrated with the 17 Sustainable Development Goals



Social engagement is one of the primary missions of Walailak University through the work of the Center for Academic Services. The center is responsible for setting its main operational direction toward social engagement for sustainability with stakeholder participation to improve the livelihood of communities and people in the area. To pursue the mission, Walailak University has formed a model called the “WU Happy Tree” based on the United Nations Sustainable Development Goals. The model is a strategy for social services by developing research projects and innovations to make a positive social contribution, regardless of ethnicity, religion, disability, immigration status, or gender. The WU Happy Tree encompasses five significant branches that aim to provide expertise and technical services to Thai society, integrating with the 17 Sustainable Development Goals that play a significant role in the development of social services in communities. Moreover, in order to be a truly global citizen, Walailak University has a solid commitment to providing social services to international communities, not just Thai communities, without considering racial, national, or religious boundaries based on SDGs and the WU Happy Tree Model.

These five areas are as follows:

### 1. Career Opportunity for Sustainable Local Economic Development

The university aims to develop sustainable jobs for the local community, enabling people to earn a living and live a better life based on their needs, religious beliefs, community context, and capability. In addition, the university has implemented its academic excellence to solve community problems and significantly created countless jobs for different communities. For instance, Siam Ruby pomelos were produced and processed, and Trichoderma was utilized to enrich pomelo quality and reduce chemical usage, resulting in less budget expenditure. The production of fermented catfish in Thasak Sub-district was improved by humidity reduction, a better packaging process, and quality product certification. The community has received praise and awards from different organizations. Moreover, sustainable model communities established under a Royal Initiative Project by the late His Majesty the King have obtained national prizes. The model community project was conducted with a partnership of various government and private sectors, such as Ban Wang Ang Community, Walailak University Demonstration Community piloted by HAB Network, Betagro Public Company, and a network of eleven Thai universities. Walailak University is determined to ensure community self-reliance with good economic conditions. The Center for Academic Services intends to build careers for communities to boost their income and well-being. Career enhancement focuses on the development based on community context and needs. Career enhancement can contribute to the SDGs, including SDG 1: No Poverty, SDG 2: Zero Hunger, SDG 8: Decent Work and Economic Growth, SDG 9: Industry, Innovation, and Infrastructure, and SDG 17: Partnerships for the Goals.

### 2. Happiness in Health: Building Community Power for the Nation

WU Hospital fundamentally focuses on community health services. Continuous progress is in health consultation, mobile medical service, studies of older people’s well-being and a network of the elderly in Nakhon Si Thammarat and nearby provinces. Many health sciences schools at Walailak University have also conducted research studies and academic services, such as applying herbs as mosquito repellent. These activities have significantly changed the health of people in communities. Providing health services is consistent with SDG 3: Good Health and Well-Being and SDG 17: Partnerships for the Goals.



### 3. Access to Equal Education Opportunities

With the university's mission of teaching, Walailak University staff provide academic services to schools and communities in Nakhon Si Thammarat, such as Chumchonmai School located in Walailak Phattana Demonstration Community. The school is part of a prototype project for teaching and learning enhancement. Walailak University has assisted with the curriculum structure design and foreign language courses, such as English, Chinese and Malay. Establishing the King's philosophy of the Sufficiency Economy Learning Center Project is also beneficial for students to learn living skills, plan farming based on business models and earn money to help their families. One evidence of these projects' significant impact is that gaining more knowledge from their English lesson, students joined an English vocabulary competition, won the first prize in the southern region and received a bronze medal from a national contest. WU always places importance on providing free educational opportunities for all to align with SDG 4: Quality Education, SDG 10: Reduced Inequalities and SDG 17: Partnerships for the Goals.

### 4. Resource and Environment: Protecting the World for Future Generations

The Sustainable Development Goals and National Economic and Social Development Plan relate to research directions for academic excellence. Concerning the environment, the blue crab project produces crab banks in Nakhon Si Thammarat and Suratthani. Along the coast of the two provinces, over 60 crab banks can stimulate marine and coastal resource conservation and benefit more than 60 communities. The research outcomes suggest policy planning of aquaculture zoning, an increase in the number of flower crab harvests and more balanced coastal ecosystems and marine resources. Apart from this, the water management project tackles problems of flooding, drought, landslide and sinkhole. Walailak University's academics continuously run the project to provide the provincial authority with information on water resource management in the area. In addition, WU has initiated many projects to protect and conserve natural resources and the environment to align with SDG 6: Clean Water and Sanitation, SDG 7: Affordable and Clean Energy, SDG 12: Responsible Consumption and Production, SDG 13: Climate Action, SDG 14: Life below Water, SDG 15: Life on Land and SDG 17: Partnerships for the Goals.

### 5. Social and Cultural Background: Keeping Traditions Alive and Peacebuilding Towards Stable Society

Nakhon Si Thammarat is known for its ancient civilization. The university consistently implements and updates mechanisms of documentation to present the region's identity and publicize the community's uniqueness. For instance, the education media for the archeological sites of Tumpang, Khao Kha and Mokhalan are designed based on research work. This modern data compilation employs virtual reality technology and 3-D modeling to narrate stories to children, youth and adults alike. The inventions also promote cultural tourism in the region, resulting in context-bound social development. Another example of continual classroom- academic services integration on social and cultural aspects is the university's work on Wat Daeng's monastery hall in Chian Yai, Nakhon Si Thammarat. The project is in the process of World Heritage registration with UNESCO. Preserving cultures and local traditions is the mission WU has been implementing to align with SDG 11: Sustainable Cities and Communities. In addition, WU aims to build peace for both Walailak and outside communities to be consistent with SDG 15: Gender Equality, SDG 16: Peace, Justice and Strong Institutions and SDG 17: Partnerships for the Goals.

**WU**  
*Happy tree*



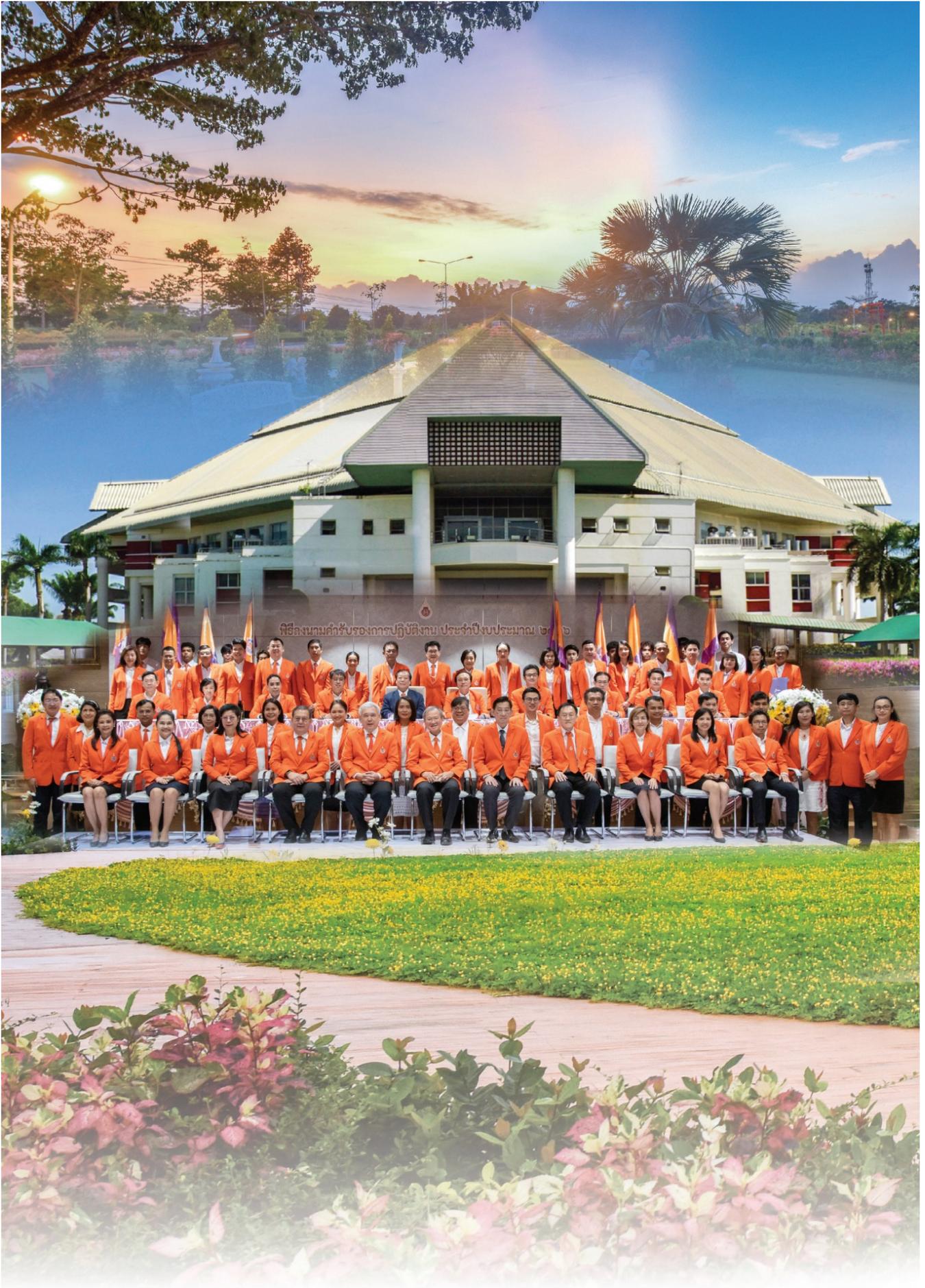


**Research Building**



# WU Happy Tree Model integrated with the 17 Sustainable Development Goals







## WU Policies' Contribution to the UN's Sustainable Development Goals

### ◆ Policy to Protect Nonsmokers' Health and Designate Specific Smoking Areas, B.E. 2565 (2022)

Walailak University always realizes the safety of the working environment to protect nonsmokers from secondhand smoke. Tobacco smoke consists of 4,000 chemicals and 50 of them can be harmful to nonsmokers. In order to create a friendly nonsmoker environment in the workplace, Walailak University issued the policy on "Protecting Nonsmokers' Health and Designating Specific Smoking Areas, B.E. 2565 (2022)".

### ◆ Walailak University Lifelong Learning Policy

Teaching the students at the campus is not the only thing that WU has been implementing. Since its foundation, Walailak University has been committed to lifelong learning which provides the public to access education at the campus through training workshops, events, educational resources, and other forms. To obviously demonstrate to the public in mobilizing SDG 4: Quality Education, WU issued the "Lifelong Learning Policy". The policy can highlight the significant contribution to providing lifelong learning opportunities for all.

### ◆ Water Reuse Guidelines

Reusing water is one of the predominant missions of Walailak University. WU Waste Management Project Office is responsible for reusing water and setting strategies for reusing water. Water treated at WU is used for various purposes such as flushing, washing hands, watering plants, general cleaning, agriculture, industry, etc.

In addition, the Water Reuse Guidelines obviously ensure stewardship of WU on the quality of water released to ecosystems surrounding the campus and carefully weighing impacts on neighboring societies.

### ◆ Policy on Single-Use Plastic Waste Reduction

What WU does not want to see anymore is a sea turtle or other marine animals choked to death on plastic waste. As a university located near the Gulf of Thailand, Walailak University issued a policy on "Single-Use Plastic Waste Reduction" to lessen the amount of waste disposal in line with the United Nations' Sustainable Development Goal No. 12 Responsible Consumption and Production, and No. 14 Life below Water.

### ◆ Policy on Food Preparation and Sustainable Consumption

Thailand has been rich in food resources, nurturing Thai people for centuries. However, responsible consumption must be fully realized because irresponsible behavior has direct and indirect consequences for the climate and environment. Walailak University always makes a significant contribution to motivating the Walailak community to make the consumption of food more sustainable. The policy on food preparation and sustainable consumption can guarantee that WU is committed to sustainable consumption.

### ◆ Policy on Waste and Hazardous Waste Management

Waste management is one of the factors contributing to the positive changes in climate change and environmental protection. Waste management at WU starts from small steps to a complicated process. With the existence of the policy on waste and hazardous waste management, the environment and the health and safety of the Walailak community are protected. WU has professional organizations responsible for waste management with long-lasting experience.





**ST Building**



## INTEGRATING SUSTAINABILITY IN GENERAL EDUCATION

Walailak University believes that education for sustainable development can offer an inclusive approach to supporting students' sustainability competencies considered a crucial matter for the 21<sup>st</sup> century. It also creates the atmosphere of a culture of sustainability which enables students to develop knowledge, skills, and motivation to give precedence to sustainability.

One of WU's main missions is to create a new strategy to support the integration of the Sustainable Development Goals into the curriculum. In the academic year 2021, Walailak University updated its curriculum on General Education courses with Sustainable Development Goals to raise awareness among the students at Walailak University to place importance on environmental conservation, sustainable use of natural resources and energy, waste and hazardous waste management, climate change, and international collaboration to address climate change. All Walailak lecturers always put sustainability into curricula as part of their policies. In the course specification, the lecturers provide details of each subject that aims to tackle SDG problems for all 17 goals. At the moment, 80% of the subjects at Walailak University have been integrated with sustainability matters.

For more information, click <https://ces.wu.ac.th/registrar/coursegreen.asp?fac=21>

WU aims to equip graduates with the ability to truly understand the Sustainable Development Goals, the 20-year National Strategy, and the National Economic and Social Development Plan. In 2022, the number of sustainability-integrated courses at Walailak University was 1,733 courses with 2,460 curriculums. Walailak University will never stop adopting a more holistic approach to education with the aim of producing graduates who truly understand the immediacy of environmental responsibility.

In addition, learning in the classroom is enough to raise awareness of the SDGs. Walailak University encourages students to learn outside the classroom through outreach engagement projects. Education is more than the acquisition of knowledge. Thus, learning outside the classroom gives them the opportunity to learn and experience what problems society is facing, whether they are economic, environmental or social. Moreover, it serves as a vehicle to develop the capacity to raise awareness about being a volunteer and create greater impacts for local, regional, national and international communities.

WU MOOC is another mission of Walailak University to provide lifelong learning for the public. It can be accessible for people to start creating a strong foundation for a knowledge-based society, regardless of race, ethnicity, skin color, religion, economic status or other kinds of social diversity. WU also encourages the public to explore the endless possibilities of discovery, skills and rewards, both professionally and personally.





**Walailak University Hospital**



## HOW IS WALAILAK UNIVERSITY THREE YEARS AFTER THE PANDEMIC ?

In 2020, Walailak University was impacted by the COVID-19 outbreak, resulting in a paradigm shift in the education system. WU went into lockdown in March until the fiscal year 2021. Walailak University's education system returned to normal in 2022 after the pandemic and started to reopen for face-to-face learning. Under President Sombat Thamrongthanyawong's leadership, Walailak University's development happened rapidly in 2022, which is another glorious change for the university.

### WALAILAK UNIVERSITY HOSPITAL

Since 2022, Walailak University Hospital has officially opened its first phase with 426 beds with advanced and standardized medical equipment. In the future, it is expected to be the largest tertiary hospital in the upper south of Thailand, providing medical services for both inpatients and outpatients. The hospital also serves as an institution producing medical graduate students to serve the nation in promoting the well-being of Thai society. Besides, the hospital is committed to providing more social engagement projects to both Thai and international communities. At the moment, there are many migrant workers from Myanmar working in Nakhon Si Thammarat. These people cannot access quality health services to improve their livelihood. Thus, the hospital aims to build a society with equality that aligns with SDG 3: Good Health and Well-Being.





An Electric Shuttle Bus



## GREEN ENERGY TOWARDS ZERO CARBON CAMPUS

Walailak University has been adopting sustainability concepts to develop its activities to be more sustainable and consistent with the Sustainable Development Goals, especially SDG 7: Affordable and Clean Energy, SDG 11: Sustainable Cities and Communities, and SDG 13: Climate Action. Also, the university aims to produce more graduates as the next generation of environmental leaders to protect the environment. Each year, Walailak University has been developing its environmental actions and improving all facilities to encourage students and staff to follow sustainable paths.

### ◆ Electric Shuttle Bus Service

Walailak University has been providing 20 electric shuttle buses for staff and students. There are 5 routes of shuttle bus services, including the campus, the student and staff dormitory area, the sports stadium, Walailak University Hospital, the library, Walailak Park, and the outside areas of the university. It starts at 7 a.m.–9 p.m. every day. Basically, on each day, the bus services can serve an average of 6,414 passengers and operate about 628 times throughout the campus. The service can reduce GHG emissions as students and staff do not need to use cars or motorcycles. In addition, using the electric shuttle bus service can reduce the congestion on campus, contributing to sustainable commuting in SDG 11: Sustainable Cities and Communities.

### ◆ Pedestrian Path Policy on Campus

Walailak University has organized a campaign called “Walk for Health” with the purpose of encouraging staff and students to use the covered walkway or pedestrian path to reduce GHG emissions. All buildings at Walailak University are connected by a covered walkway covered by roofs. It is for students and staff to walk and ride bikes. Moreover, the covered way has a light system throughout the route so that students and staff can walk safely. The pedestrian also reduces GHG emissions and the number of streets with the prevalence of road traffic, which is beneficial for the walker’s health.

### ◆ Solar Panels

Solar panels have been used at Walailak organizations as green energy to reduce GHG emissions. The organizations that have used the solar panels at Walailak University are The Center for Scientific and Technological Equipment, the Division of Waste Management Landscape Architecture and Environment, and the Center for Library Resources and Educational Media. In addition, the buildings that have adopted solar panels are learning centers for the Walailak community and the public to encourage them to use renewable sources of power. Walailak researchers are conducting research projects on solar energy in collaboration with the private and government sectors and disseminating the knowledge to local, regional, national, and international communities. In the near future, Walailak University will expand the use of solar panels as a standard of sustainable building to align with SDG 7: Affordable and Clean Energy.

### ◆ Biogas

The Center for Smart Farm of Walailak University has been adapting the biogas technology as alternative energy to reduce GHG emissions. The biogas is produced from food waste and animal waste. In addition, it can reduce the costs of farming resulting in the lower price of agricultural products produced by the farms. Biogas can mitigate methane emissions and reduce climate impacts. Biogas will decay naturally, resulting in less harm to the environment than allowing it to escape into the atmosphere. In addition, biogas is renewable energy that is produced by the resources on campus. Any local community can access knowledge on biogas production without incurring costs to promote sustainability among local communities and align with SDG 7: Affordable and Clean Energy.





**Bota Sky Tower**



## BOTA SKY TOWER: THE NATURE STUDY TRAIL FOR NATIVE PLANTS

Bota Sky Tower is not only a tourism destination but also a nature study trail for the native plants and rare plants in Tha Sala district that is always open to all as part of the policy on lifelong learning of SDG 4: Quality Education.

A captivating natural experience awaits visitors to explore what WU has been implementing for years. During the walk up to the tower, visitors will discover a large assortment of native flora and fauna living in harmony with marshes and hardwood forests.

Those who are on the top of the sky tower will see the native species of birds flying throughout the sky, including white-rumped shamas, swallows, mynas, and others. In the forest surrounding the tower, visitors will see native animals such as cows, reptiles, lizards, and others.

Besides animals, visitors will be impressed by seeing the tremendous forest of protected species of trees, such as Siamese rosewood, teak, Burmese rosewood, and others.





Lecture Building 5



## THE FIRST UNIVERSITY IN THAILAND THAT ACHIEVES THE HIGHEST NUMBER OF UKPSF-CERTIFIED FACULTIES

The number of the UKPSF-certified faculties, 500+ records in 2022 confirmed Walailak University's dedication to enhancing students' learning, teaching, and learning culture on the part of the lecturers. This achievement is in line with the global standard of quality.

Championed by Professor Dr. Sombat Thamrongthanyawong, President of Walailak University, the university has been working with the Advance HE through four Fellowship training programs to improve the quality of teaching and learning. Teaching staff continuously participated in the teaching and learning development program, the Certificate in Learning and Teaching in Higher Education (CLTHE) program aligned with the Professional Standards Framework for Teaching and Supporting Learning in HE (PSF), designed by UK universities.

More importantly, in 2023, the updated number of the UKPSF-certified faculties is 646, accounting for 96.42% of the total number of faculties, the highest number of UKPSF-Certified faculties in Thailand. Since 2018, Walailak University has been implementing the UKPSF in all its teaching practices. The framework, which focuses on active learning, helps students develop critical, analytical, and synthetic thinking skills. Furthermore, the university's small class sizes cultivate a friendly learning environment and promote increased student engagement in class.





International Students at WU



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



# NO POVERTY

# 1

- ◆ The Provision of Scholarship to Lower Middle-Income Thai and International Students
- ◆ Supporting Local Start ups Based on Sustainable Business
- ◆ Walailak University Enhances Disease Prevention Strategies for Swine Farmers
- ◆ The Role Model Project for Generating Income Among Oil Palm Farmers

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# NO POVERTY

## The Provision of Scholarship to Lower Middle-Income Thai and International Students

Walailak University always provides scholarships to both Thai and international students from poor family backgrounds as it is part of WU policies to develop the human resources for the nation and provide educational opportunities.

In 2022, Walailak University provided 144 scholarships for Thai students, both from the university and government organizations, totaling 1,311 students receiving the scholarships. The total amount of scholarships was 70,613,337 baht, of which 53,633,737 baht were supported by the university. In addition, Walailak University had many projects involving the exemption of dormitories and tuition fees. The projects include:

- ◆ The Graduate Development Scholarship for the 21st Century Project
- ◆ The Educational Potential Development towards Excellence
- ◆ The Development and Promotion of Science and Technology Talents Project
- ◆ The Sports Scholarship Project
- ◆ The Nutrition Scholarships at Walailak University Hospital
- ◆ Scholarships for Students with Outstanding Academic Results
- ◆ The Humanitarian Scholarships



Additionally, to be a good university in the international community, Walailak University, through WU International College, has continuously provided scholarships for overseas students from developing countries for all degrees. In 2022, 83 foreign students were receiving Ph.D. scholarships from countries, including China, Cambodia, Nigeria, Vietnam, Bangladesh, Tanzania, Kenya, Iran, Burma, Sierra Leone, Ethiopia, Indonesia and Nepal; meanwhile, 51 foreign

students received Master's degrees from China, the Philippines, Vietnam, Nigeria, Kenya, Vietnam, Zambia, Somalia and Timor-Leste. All these scholarships in 2022 were:

- ◆ Excellence Scholarships
- ◆ Scholarships for High-Potential Candidates
- ◆ Full Tuition Fee Waiver Scholarships
- ◆ Fully Funded Scholarships



In addition, in the academic year 2022, Walailak University International College established the "Undergraduate Excellence Scholarships" to provide financial assistance to up to 30 international students from ASEAN and non-ASEAN countries. As a global frontier research university, Walailak University will always place importance on providing scholarships to students from developing countries.

## Supporting Local Start ups Based on Sustainable Business



Supporting knowledge, technology and funding for sustainable start up firms in local communities is what Walailak University has been doing. The Walailak Business Incubation Center (WIC) of the Science and Technology Park, Walailak University, is responsible for assisting the local start ups working in line with sustainable businesses to grow their business socially and financially. WIC transfers knowledge



of science and technology. Additionally, the center helps entrepreneurs who invest in sustainable business from the beginning by defining a concept (idea state), constructing a prototype (R&D), and market-validating the product to the point of selling.

Here are the missions of WIC to assist the local start ups:

- ◆ Providing training workshops instructed by specialists from government and private sectors on entrepreneurship, marketing, accounting and finance, legal knowledge and business registration
- ◆ Introducing the start ups to expand the collaboration with local and government sectors
- ◆ Holding consultation services by Walailak experts, researchers and academicians
- ◆ Arranging free facilities such as offices, meeting rooms and high-speed Internet in the area
- ◆ Giving packaging development consulting services
- ◆ Supporting the science and technology laboratories at WU without costs
- ◆ Offering opportunities for funding from government organizations

To see more information about WIC, please visit

<https://sciencepark.wu.ac.th/wic/>

### Walailak University Enhances Disease Prevention Strategies for Swine Farmers



Walailak University organized an outreach activity to promote swine disease prevention strategies for swine farmers in the Walailak Development Demonstration Community. Due to the situation of the spread of swine diseases, the community's enterprise group realized the importance of the prevention and surveillance measures for the disease and requested academic services from the Center for Academic Services.

Thus, WU informed the analysis results of swine dung samples and feeding systems to prevent other pig diseases. Twenty members of the community enterprise participated in the event.

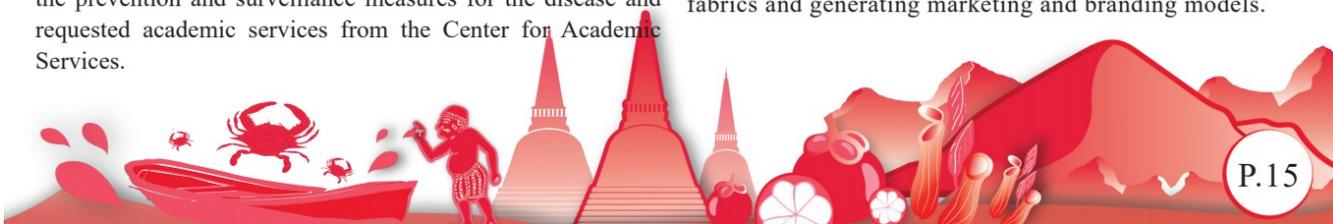
Furthermore, Mr. Sanong Tongyod, the enterprise group chairperson, advised on artificial insemination in pigs. After that, the Center for Academic Services staff clarified the guidelines on the development of the community enterprise in 2022 under the mission to support the proficient and standardized swine management system and offered swine health care supplies such as disinfectant and anthelmintics subsidized by the University to Tambon project.

### The Role Model Project for Generating Income Among Oil Palm Farmers

Walailak University has established partnerships with the Program Management Unit on Area Based Development (PMUA), Prince of Songkla University and several organizations in Krabi province to conduct the Krabi Model for the second year, utilizing knowledge in research, science, technology and innovation to increase oil palm farmers' income at least 10,000 baht per month. This momentous collaboration aims to address the poverty issues aligning with SDG 1: No Poverty and provide farmers with sustainable sources of income; improving farmers' quality of life and supporting the community to be more self-sufficient, particularly through the income from the crop they are growing.



The model is implemented through six projects, namely oil palm production optimization, goat farming in palm plantations, aquaculture of feathered algae, production of bamboo mushrooms, development of tie-dye Batik fabrics and generating marketing and branding models.





Cho Pradu Food Center



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



ZERO HUNGER

# 2

- ◆ Empowering Local Farmers: Free Access to Knowledge on Food Security and Technology
- ◆ WU Clinic Technology: Fostering Sustainable Community Development through Innovation and Collaboration
- ◆ WU Policy: Prioritizing Local Food Producers and Supporting Sustainable Community
- ◆ RSPG: The Stage for Local Farmers to Exchange Perspectives and Experiences on Sustainable Agriculture

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# 2 ZERO HUNGER

## Empowering Local Farmers: Free Access to Knowledge on Food Security and Technology

Walailak University has provided access to food security and sustainable agriculture knowledge to local farmers and food producers by organizing training projects “New Generation Smart Farmer Generation 3,” aiming to enable local farmers in Tha Sala District to bring new knowledge in the agricultural system management to become modern farmers.

Experts from various departments within Walailak University provided training in plant field management, plant diseases, livestock management and modern marketing. During the event, more than 100 agricultural participants attended sessions on a variety of topics including:

- ◆ Plant disease management for sustainable income generation
- ◆ New era marketing for modern farmers
- ◆ Livestock management for career development
- ◆ Management of fruit tree plots for building careers

In addition, the university also has a “project to grow safe vegetables in hydroponics” under the operation of the Agricultural Innovation Demonstration and Development Center in honor of His Majesty King Rama IX, which has been in operation since 2020. This is the main project to strengthen food safety and is open to farmers and food producers to acquire knowledge and various technologies as follows:

- ◆ Water conservation in hydroponic systems
- ◆ Soil farming
- ◆ Growing plants in the NFT system



## WU Clinic Technology: Fostering Sustainable Community Development through Innovation and Collaboration

Clinic Technology, in collaboration with the Ministry of Higher Education, Science, Research and Innovation (MHESI), has embarked on a mission to establish itself as an academic and consultancy service center. This initiative seeks to bolster networks and foster cooperation among diverse organizations operating under the umbrella of MHESI. The project succeeded in the community’s sustainable economic, agriculture and livelihood development by utilizing science, technology and innovation. Moreover, the Clinic Technology has 83 products by 51 experts from Walailak University, and it transfers 95 technologies to local farmers and food producers.



WU Clinic Technology has continued to operate the project; in the 2022, five significant benefits the Clinic Technology gains from organizing activities are:

- ◆ Independently assisting the residents and communities
- ◆ Promoting cooperation between community networks of fieldwork
- ◆ Honoring and gaining the trust of the communities and local authorities
- ◆ Identifying the type of technology required in the communities so that the unit coordinates with relevant agencies for support in technology availability and community budget
- ◆ Organizing long-term and short-term schemes or projects to promote the communities

The technology that stood out in 2022 is Biological Antagonism, Pest Control Technology. Farmers across the country learned about this technology through the dissemination by Thai PBS Southern News Center, resulting in over 7,200 farmers from 77 provinces throughout Thailand seeking consultation services on the use of this technology from the Agricultural Microbiology Production and Service Center, Walailak University.



### WU Policy: Prioritizing Local Food Producers and Supporting Sustainable Community



Walailak University has announced the Policy on Food Preparation and Sustainable Consumption to ensure that all foods within the university are safe for the benefit of students, visitors and communities.

Local entrepreneurs and communities surrounding Walailak University have sustainable food sources. Moreover, it also emphasizes the importance of living together with the community by acknowledging the importance of having a good quality of life for people in the community, focusing on sustainable food purchases by prioritizing the purchase of products from local and sustainable sources.

In 2022, the university, consequently, has taken steps to give importance to products from the community as follows:

#### ◆ Local Entrepreneur Shop Zone at Chor Pradu Food Center

In order to increase income for the community, broaden marketing channels and support local agricultural products, the university has established a community product shop zone in the Chor Pradu Food Center to cater to many types of foods. With entrepreneurs living in the community ready to operate as restaurants by meeting food sanitation standards, the university waives the ground rent for them upon the condition that they sell products or use raw food materials in community area nearby WU.

#### ◆ University Souvenirs from Community Products

The university has guidelines for creating university souvenirs for special occasions or festivals by emphasizing products or raw materials from safe food sources. There are two forms: 1) using raw materials and creating new packaging; 2) collecting local products into basket sets to suit target groups. These are ways to help communities and enterprise groups earn additional income and create value for local products.

### RSPG: The Stage for Local Farmers to Exchange Perspectives and Experiences on Sustainable Agriculture

Between September 20 and 23, 2022, Walailak University hosted the event “11th Academic Conference and Exhibition, Thailand’s Resources: 30 Years, RSPG for Real Benefits to the Public”. The academic conference of the Plant Genetic Conservation Project under the Royal Initiation of Her Royal Highness Princess Maha Chakri Sirindhorn, or RSPG, has been held continuously. In 2022, Walailak University succeeded in hosting the momentous event to honor Her Royal Highness Princess Maha Chakri Sirindhorn for continuing the mission of conserving the nation’s resources, His late Majesty King Bhumibol Adulyadej’s initiative, and providing opportunities for youth, the public, academics, the private and public sectors, as well as policy - making organizations, to learn and appreciate the diversity of Thai resources’ potential.

One of the features of the event was the Resource Base stage. The stage aimed to serve as a central stage to bring together local food producers and farmers in a collaborative manner to learn from each other’s capabilities and exchange perspectives and experiences on sustainable agriculture and food production based on sustainable resource conservation in Thailand.

All the farmers and food producers participating in the event were from various provinces in Thailand, including Songkhla, Nakhon Ratchasima, Phang Nga, Mae Hong Son, Lamphun, Khon Kaen, Nakhon Sawan, Chiang Mai and Bueng Kan, and have been supported by subdistrict administration organizations in their careers. In addition, the event was open to all interested participants. The key topics on agriculture and food production presented at the stage are Split gill Mushroom processing, Yellow Oil Production, Bland tea recipe, Citronella grass processing, Sea Cucumber Farming and Instant Korat-Style Noodle.



# Walailak University Hospital





# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



GOOD HEALTH AND WELL-BEING

# 3

- ◆ The Collaboration in Advancing Healthcare with Local, National and Global Health Institutions
- ◆ The 3<sup>rd</sup> Consecutive Year Outreach Project, titled “The Development of Sustainable Care and Rehabilitation System for the Elderly”
- ◆ The Free Access to Mental Health Support for Students and Staff by Smile & Smart Center
- ◆ Walailak University’s Commitment to a Smoke-Free Environment in 2022

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# 3 GOOD HEALTH AND WELL-BEING

## The Collaboration in Advancing Healthcare with Local, National and Global Health Institutions

Walailak University develops cooperation with external agencies in various professional fields. One prominent field is health care with a collaborative force from all levels - local, national and international - to improve health and well-being through cooperation agreements and projects.

The Project on Using Telehealth Technology to Care for Patients with Diabetes Type Two or High Blood Pressure is a project resulting from the signing of a cooperation agreement to support the development of telehealth technology to care for patients in the upper southern region between Walailak University and local and national health agencies. The local levels are the National Health Security Office (NHSO), Sichon Hospital and Koh Samui Hospital, whereas the national institutions are the Health Systems Research Institute (HSRI) and the National Science and Technology Development Agency (NSTDA).

Also, Walailak University has ongoing cooperation with an international health agency from Taiwan, Overseas Medical Mission Center Changhua Christian Hospital, to expand medical education and research projects, such as the medical nurse training project, officer training project, medical technology knowledge sharing and student exchange program.

Notably, Walailak University had the privilege of co-hosting the 2022 Taiwan-Thailand Smart Healthcare Conference with Taiwan's Changhua Christian Hospital. The conference theme, "Reshaping the New Normal: Smart Technology in Precision and Regenerative Medicine," featured over 16 prominent companies showcasing their medical technologies. Distinguished speakers from both Thailand and Taiwan presented on various topics, including smart healthcare, precision medicine and regenerative medicine.



## The 3<sup>rd</sup> Consecutive Year Outreach Project, titled "The Development of Sustainable Care and Rehabilitation System for the Elderly"



Walailak University, in collaboration with the School of Allied Health Sciences, the Center for Academic Services, and local health institutions, has launched an outreach program for disadvantaged individuals in the local community. This initiative, titled the "Project to Develop a Sustainable Care and Rehabilitation System for the Elderly in Satit Walailak Pattana Community Area," is now in its third year of development. The project is dedicated to enhancing the healthcare network within the community, following the principle of a "Seamless Service Network," and strengthening the capabilities of the Subdistrict Health Promotion Hospital in the field of rehabilitation.

Over the past two years, the project has primarily focused on providing rehabilitation services for elderly patients with long-term health issues. To ensure clear clinical outcomes for these patients, the project has evolved in its third year to establish a more comprehensive service system. 1) a database system and referral system for patients who need rehabilitation services; 2) a physical therapy system for sub-acute and long-term patients; and 3) a disease prevention and promotion service system for those at risk of developing health issues.

Additionally, the project conducts various activities as follows:

- ◆ Evaluating movement problems, fitness tests for both physical impairment and activity levels, and other problems to confirm the recovery level target and to plan an individual-level additional inspection

- ◆ Carrying out a movement rehabilitation program for ten elderly people stuck at home and bedridden by providing a rehabilitation program, and a program on how to properly move elderly people stuck at home and bedridden, as well as giving advice to family caregivers, Subdistrict Health Promoting



Hospital staff and village health volunteer leaders

In this regard, the project team plans to provide ongoing rehabilitation services by physiotherapists, students and village health volunteer leaders and will implement a monitoring and evaluation system supported by the “Application Restoration to Movement” system.

### The Free Access to Mental Health Support for Students and Staff by Smile & Smart Center



The establishment of Smile & Smart Center was to make mental health services available to students and staff of Walailak University. Serving as a caring center for students facing psychiatric problems, Smile & Smart Center provides mental health services by medical experts and well-trained professionals.

The efficient services are made possible through collaborations with schools, Smile & Smart Center, and Walailak University Hospital. Students with signs of depression and anxiety can get early treatment and support to develop a happy college life. All consultation services are free of charge and available on campus. To access the services, one can follow these two methods.

◆ Students and staff can walk in to the center and request the services.

◆ For alternatives, visit <https://smilemart.wu.ac.th/site/index?language=en-US>

In addition to regular services held within the center, it also organizes extra activities. In 2022, the Smile & Smart Center held various activities to fulfill its mission of providing mental health support:

◆ **Basic Satir Model Counseling Training:** This training program aimed to equip lecturers and personnel from different schools and colleges with an understanding of the Satir Model, enabling them to serve as consultants for students, lecturers and staff.

◆ **World Café Activity:** This engaging event facilitated the exchange of knowledge regarding the challenges faced by students, lecturers, and staff, while also sharing essential life skills necessary for thriving in a university environment.

◆ **Happy Mind Activity:** Focusing on nurturing positive energy among students, this activity was designed to enhance the

mental well-being of individuals within the university community.

◆ **Create Happiness, Awaken Smiles Activity:** This initiative aimed to inspire students in their academic pursuits and provide fresh perspectives on their studies, future careers, and personal development. It also served as a platform for stress relief and sharing of valuable life insights and ideas.

These activities underscored the Smile & Smart Center’s commitment to promoting mental health and fostering a supportive and positive atmosphere within Walailak University.

### Walailak University’s Commitment to a Smoke-Free Environment in 2022

In 2022, Walailak University conducted a comprehensive review of its “Policy to Protect Nonsmokers’ Health and Designate Specific ‘Smoking Areas,’ B.E. 2565 (2022)” to raise awareness of the adverse health effects of smoking and to encourage strict compliance with this policy across all university departments. This initiative led to implementing various activities to promote a smoke-free environment on campus.

To promote the policy effectively, the university organized the World No Tobacco Day 2022 campaign to raise awareness of smoking cessation in alignment with global efforts. Additionally, the declaration of non-smoking areas was made at the internal sports competition, “Pradoo Games.”

Highlighting the university’s commitment, the School of Pharmacy at Walailak University received the prestigious award for “Educational Institutions Leading the Way for a Smoke-free Thai Society.” This honor was bestowed during the Dean Summit on Tobacco Control, recognizing the university’s outstanding dedication to creating a smoke-free environment in Thai society.





**WU Agricultural Innovative Demonstration and Development Center in Honor of Rama IX**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



**QUALITY EDUCATION**

# 4

◆ **The Free Educational Resources for All at Walailak University**

◆ **The Sufficiency Economy Learning Center Development According to the King’s Philosophy**

◆ **The Free Educational Event within the 11<sup>th</sup> Academic Conference and Exhibition Thailand’s Resources**

◆ **The Twenty-Fourth Young Scientist Competition: YSC 2022**

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# 4 QUALITY EDUCATION

## The Free Educational Resources for All at Walailak University

Walailak University extends its commitment to providing free access to educational resources for individuals not currently enrolled at the university through various avenues, including:

◆ **Training Courses:** Walailak University's schools offer short and long courses to the general public, enabling them to enhance their knowledge and acquire certificates that can boost their career prospects. A notable course is the "Artificial Intelligence (AI) and Practical Deep Learning Bootcamp," conducted by the Science and Technology Park.



◆ **Online Learning Courses:** Collaborating with MHESI, Walailak University offers free online courses that contribute to long-term higher education opportunities. The university also co-organizes open education through free online classes (WUMOOC) with MHESI, making quality education accessible to all. The example courses are Thinking for Personal Development, Information Ethics for Digital Citizenship, Healthy Sleep for Health and Safety. Furthermore, the Center for Academic Service, runs programs like "Walailak to Society" and the "Good Health Good Life at Walailak" radio channel to disseminate valuable health knowledge.

◆ **Free Library Services:** The Center for Library Resources and Educational Media (CLM) grants public access to library services, fostering learning opportunities for external individuals. The library facilities are designed to accommodate the underprivileged and disabled, featuring accessible amenities such as wheelchair-accessible aisles, Braille book services, and self-access online resources available to all users.

◆ **Computer Technology Services:** The Center for Digital Technology (CDT) offers complimentary access to university equipment for local schools facing challenges in technology-driven teaching and learning. Schools with limited resources can request IT support from the university, benefiting from computer hardware services and technical consultation to meet their educational needs.

Additionally, one of the outstanding departments within the university that provides free access to a wealth of educational resources is Walailak Botanic Park. Visitors can partake in a variety of educational activities, including nature trails, academic camps, science camps, astronomy programs, herbal scent exploration, shuttle bus sightseeing tours, tree planting initiatives, and birdwatching expeditions. Moreover, WBP boasts numerous educational attractions, such as the Nepenthes House, the Herb Garden, the Sundial, the Maha Chakri Sirindhorn Natural History Museum, the Arid Plant House, and the Bota Banana Garden.

## The Sufficiency Economy Learning Center Development According to the King's Philosophy



The Sufficiency Economy Learning Center at Chomchon Mai School, a collaborative effort between Walailak University, governments and private sectors, has undertaken an educational outreach program beyond campus. Beginning in 2018-2019, it initially focused on establishing a learning center following the Royal Initiative for Lunch of Students. In 2020, efforts shifted towards integrating students' classroom and out-of-classroom learning, resulting in the creation of a prototype curriculum. By 2021, the center had evolved into a model Sufficiency Economy Learning Center within the school that has developed a curriculum integrating with the Sufficiency Economy Philosophy. From this operation, Chomchon Mai School, therefore, won the award of best practice on in the Management of "the Development of the Sufficiency Economy Learning Center according to the King's Philosophy, Chomchon Mai School".

In 2022, the program's future goals include implementing a comprehensive and nutritious school lunch program, and ensuring student safety and nutritional needs. This encompasses educational management, instructional materials, and teaching methods aligned with sufficiency economy principles. Additionally, it aims to cultivate entrepreneurial skills and instill a self-sufficient economic philosophy in students, fostering regional expansion and knowledge dissemination within the school's context.



### The Free Educational Event within the 11<sup>th</sup> Academic Conference and Exhibition Thailand's Resources

Walailak University was granted royal permission to host the 11<sup>th</sup> Academic Conference and Exhibition Thailand's Resources: 30 Years, RSPG for Real Benefits to the Public. This was a free educational event open to the public, held at the university to Her Royal Highness Princess Maha Chakri Sirindhorn for her ongoing commitment to national resource conservation efforts. The event aimed to provide an opportunity for youths, the general public, academics, the private sector and policy makers to explore and learn about the diverse potential of Thai resources.



The event also featured academic conferences on the School Botanical Garden, including 4 special lectures delivered by administrators and teachers, as well as 22 presentations, with an additional 8 presentations by students and youths.

In addition to the academic sessions, attendees enjoyed Southern Folk Art performances, performances by members of School Botanical Gardens, local restaurants and products, a Southern Local Products Fair and live performances by renowned singers and actors. It was anticipated that participants included representatives from Royal Initiative agencies across various regions and government agencies from all sectors of Nakhon Si Thammarat province, with an estimated daily attendance of 5,000 people.

### The Twenty-Fourth Young Scientist Competition: YSC 2022

The Young Scientist Competition was initiated in collaboration with the National Metal and Materials Technology Center, National Center for Genetic Engineering and Biotechnology, National Nanotechnology Center, and the university network, including Naresuan University, Suranaree University of Technology, Ubon Ratchathani

University, Walailak University, Thammasat University and the Science Society of Thailand Under the Patronage of His Majesty the King, as well as support from Intel Microelectronic (Thailand) Limited. The aim is to support Thai youth to have the opportunity to develop their skills, knowledge, and abilities in science and technology, create innovative works, and select students representing Thailand to participate in the competition at the International Science and Engineering Fair (ISEF) in the United States, as well as pushing for the work of Thai youth to be evident on the world stage.

Since then, the university has continued the project until the present. In 2022, Walailak University, by the Center for Academic Services as the Regional Coordination Center (Southern Region), hosted the Twenty-Fourth Young Scientist Competition: YSC 2022 to select representatives from Thailand to participate in the Regeneration International Science and Engineering Fair 2022. Each project that passes the consideration by the committees will receive a grant of 3,000 Baht to develop the project and receive advice and guidance on project development from advisors at Walailak University through online training activities because of the COVID-19 pandemic. The online training activities are to enhance skills, spark ideas and inspire the development and planning of further projects to enhance knowledge and skills for students and teachers, provide advice on project development by faculty from experts in each field to improve information for project development in preparation for further competition at the international level.

Moreover, this event also promotes local youth to participate in regional, national and international competitions.

Mr. Wichayoot Nakasoon, representing Benjamachulit School, located in Nakhon Si Thammarat, won the \$500 fourth award, for the project titled "Bob Pendulum Oscillation Under Air Flow: An Experimental and Numerical Investigation" in the fields of Physics and Astronomy from Regeneration International Science and Engineering Fair 2022: Regeneration ISEF 2022.





Graduation Day



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



**GENDER EQUALITY**

# 5

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- ◆ Walailak University Recognizes the Rights of Women in Leadership Roles
- ◆ CEWSS Jointly Organizing Women Empowerment Program: Accession to Justice and Economic Self-Reliance in COVID-19 Pandemic
- ◆ Equality and Non-Discrimination for LGBTQ+ Group at the Walailak Community

# 5 GENDER EQUALITY

## Walailak University Recognizes the Rights of Women in Leadership Roles



A move forward in an integrated and inclusive way on being an equal university for all must cover all dimensions of diversity. Walailak University never ignores the rights of women in the Walailak community to express their voices and opinions. The university always realizes the roles of women in administrating and directing the university’s decisions on all issues. Since the foundation of the university, women staff have held high positions at the university, including Vice-Chairman, Vice-President, Assistants to the President, Directors, Divisional Directors, Deans, and Faculty Members Committee.

All women staff in the high governing body continually have their own rights to express their opinions and thoughts on the university’s decision-making. They also are the role models for the next generation of women who will be part of the high governing body of Walailak University. Women and men staff at the university are equally paid without any gender pay gap. Walailak University will always empower women to pursue higher positions and destroy all barriers, including cultural norms, lack of role models and gender prejudices. In 2022, the female-male ratio was 3:1 indicating that Walailak University never prevented women from working in the Walailak community.



## CEWSS Jointly Organizing Women Empowerment Program: Accession to Justice and Economic Self-Reliance in COVID-19 Pandemic

The Center of Excellence on Women and Social Security (CEWSS), Walailak University in partnership with the U.S. Embassy in Thailand and the Faculty of Political Science, Prince of Songkla University (Pattani Campus) organized a project to empower women’s access to justice and economic self-reliance in the COVID-19 pandemic on the topic “Ending Domestic Violence and Empowering Women in the Upper Southern Region”. The project was organized particularly for SDG 5: Gender Equality to improve the quality of life and equality among women.



During the event, there were lectures and exchanges on ending legal challenges and best practices. The topics discussed at the event are as follows:

- ◆ “The rights of women, children and family members in the case of violence”
- ◆ “Hospital work and helping victims of domestic violence cases”



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◆ “A Lawyer’s Perspective on the Process of Assisting Victims of Domestic Violence Cases”

◆ “The legality of women and violence, a case study of the legal framework of Thailand”

Through the discussions and exchanges on these issues, participants gained knowledge and guidelines on how to deal with violence, as well as supporting the important forces in helping the front-line work at a greater community level.

In addition, Walailak University, through the Center of Excellence on Women and Social Security, adopted all the insights and knowledge from the event to disseminate to Walailak students and staff by creating educational media, teaching, and providing schemes and outreach. This knowledge will be a fundamental issue for Walailak University in creating policies on women encompassing all dimensions of SDG 5: Gender Equality.



One of the policies showing non-discrimination among transgenders students is dressing in uniforms and graduation gowns that align with their gender identity. According to the Notification of Walailak University on the Guidelines for LGBTQ+ Students in Wearing Uniforms and Graduation Gowns, Walailak University has allowed LGBTQ+ students to wear uniforms corresponding to their gender identity. Those LGBTQ+ students who want to wear uniforms and graduation gowns in the graduation ceremony can fill out the form on the request to wear uniforms and graduation gowns corresponding to gender identity and submit it to the Division of Student Support and Development.



### Equality and Non-Discrimination for LGBTQ+ Group at the Walailak Community

Each year, Walailak students in the LGBTQ+ community face off in a beauty competition where they match wits, walk runways, flaunt their style, and unveil their special abilities in the hopes of being crowned Miss Ladyboy. This competition falls under the umbrella of the Division of Student Support and Development, which serves as the platform reflecting the identity of LGBTQ+ students at WU. Speaking of beauty pageants, people mostly think about women and men. Thus, this competition is set to ensure that LGBTQ+ rights are recognized in the Walailak community, where they have equal dignity and humanity as women and men.

In the competition, all LGBTQ+ students receive chances to show their ability and potential in various aspects like other women and men do, including art performance, public speaking, singing, dancing, monologue, playing instruments, and so on. WU believes that part of the appeal of the competition is giving the LGBTQ+ community at Walailak University a platform to speak about themselves and gender equality.





# Pruksachon Reservoir



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



CLEAN WATER AND SANITATION

# 6

- ◆ Sustainable Water Management at Walailak University
- ◆ Sustainable Wastewater Treatment System: Enhancing Water Quality and Supporting Agriculture
- ◆ Water Consumption Tracking Across the University
- ◆ The Local, Regional, National, and Global Collaborative Efforts in Water Security Through the Living Weirs

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# 6



## CLEAN WATER AND SANITATION

### Sustainable Water Management at Walailak University

Situated in the heart of southern Thailand's Nakhon Si Thammarat Province, Walailak University occupies a central location near the equator, flanked by mountainous terrain and peninsulas on either side. This geographical positioning exposes the university to the influence of varying monsoon winds from the Indian Ocean and tropical cyclones originating in the South China Sea. Consequently, the region boasts a wealth of diverse plant and animal species, which marks a cornerstone of agricultural production. This natural abundance also positions the area as a hub of high natural capital, particularly in the service sector and tourism. The university's exceptional care for natural resources, like water, means its commitment to effective water management: dealing with flooding in the rainy season and water storage in the drought.

Walailak University has water conservation and natural catchment areas, such as reservoirs, ponds, pools and so on. Among these reservoirs, the Monkey Cheek Project stands out as a collaborative effort between Walailak University, the Royal Irrigation Department, members of the House of Representatives, and local agencies. This project has been successfully completed and in 2022, it is poised to provide crucial support for water needs at Walailak University Hospital and the surrounding community. Moreover, it serves as a recreational area, open to employees, students and the wider public.

Furthermore, Walailak University's commitment to efficient water management is exemplified by its provision of over 140 free drinking water dispensers for students, staff, and visitors, spreading across all buildings in the form of RO systems and stainless steel, with two - temperature drinking water dispensers.



### Sustainable Wastewater Treatment System: Enhancing Water Quality and Supporting Agriculture



Walailak University has wastewater disposal and treatment methods taking into account the environment and the well-being of the community. A wastewater treatment process occurs in each building and the water that has been treated is reused by a Wastewater Management System Development Project established in an area of 9,600 square meters in 2002 and it has been carried on continuously.

In 2022, the university created and developed an additional wastewater treatment system by successfully implementing a wastewater treatment system capable of processing 4,000 cubic meters of wastewater daily with a BOD (Biochemical Oxygen Demand) level of 150 mg/L. The treatment converts wastewater into effluent discharged from the system at a BOD of 20 mg/L.



The well-designed biological treatment system includes an aerated lagoon, two facultative ponds, an ultraviolet sterilization system and a Wet Land Pond. Notably, the treated water plays a vital role in replenishing the natural water cycle and serves as a valuable resource



for nurturing aquatic life in four fishponds. The rest of the effluent is used as a coolant in the incinerator and as a water supply for plants and farming activities on the university grounds. The use of water in such activities indicates that the effluent from the university's wastewater treatment system has a quality like that of raw water from natural water sources, which is suitable for agricultural purposes.

### Water Consumption Tracking Across the University

As for using water within Walailak University, there is a system for producing tap water from raw water that is taken from the mains supply (the university's reservoirs) and a complete water treatment plant to treat wastewater coming from various parts of the university, such as classroom buildings, operating buildings, student dormitories and cafeterias etc.

The university measures the amount of water used across the whole university. In 2022, the university has a water conservation area with a total of 1,668,217 square meters, storing water in the amount of 14,631,521 cubic meters. This is sufficient for water use within the university throughout the year. The university can produce tap water of 4,800 cubic meters per/day. Comparing data in 2020, 2021, and 2022, it is found that in 2022, the university population consumed Water with an average of 727.19 cubic meters per/day, which is likely to decrease from 2020 and 2021.

From the monitoring of water consumption in 2022 during summer, the university's population consumes water in the amount 710.30 - 730.90 m<sup>3</sup> per/day. It shows that the amount of tap water production is sufficient for use.



### The Local, Regional, National, and Global Collaborative Efforts in Water Security Through the Living Weirs

Walailak University (WU) cooperated in the field of water security with local, regional, national and global agencies to develop living weirs in the middle of the Wang Heep River, Na Mai Phai Subdistrict, Thung Song District, Nakhon Si Thammarat Province. It is a cooperation project with Prince of Songkla University, Deutsche Gesellschaft für International Zusammenarbeit (GIZ) Germany, together with local and regional agencies.



In 5 years of operation (2018-2022), WU emphasized the development of prototypes on methods for monitoring and evaluating the impacts and benefits of living weirs and on environmental resource conservation and climate protection to support water conservation outside the university area. Also, it has methods for monitoring and evaluating the digital changes and benefits of implementing Ecological-based Adaptation (EbA) with living weirs to conserve and store water, reduce soil erosion, reduce the severity of the stream in the creek, and enhance biodiversity; it is a habitat for aquatic animals and a source of water for consumption.

In 2022, WU cooperates by providing advice and consultation on questionnaires and focus group discussions for data collection in the study area and participating in the knowledge exchange training program and experience, ready to present the results of studies on water resource management through ecosystems, together with representatives of the German International Cooperation Agency and representatives of International Union for Conservation of Nature.



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**Solar Panels at the Center for Scientific and Technological Equipment**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



**AFFORDABLE AND  
CLEAN ENERGY**

# 7

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- ◆ WU Energy Saving Plan
- ◆ Carbon Footprint Assessment at Walailak University
- ◆ Walailak University's Vision to Zero Carbon University

# 7



## AFFORDABLE AND CLEAN ENERGY

### WU Energy Saving Plan

Walailak a the policy and plan aiming at energy saving by reducing overall energy consumption by 10 % per year, cooperating with students and staff to reduce all sector energy consumption within the university: electric energy, tap water and unnecessary fuel. More importantly, the worthwhile utilization of limited resources and the efficient utilization of energy enhance the quality of life and create a good and safe working environment. Also, it supports teaching and learning, research and development, and the creation of good consciousness. The participation of university personnel involves creating a database management system for the use of energy and university resources by transferring technology that leads to a green university. Besides, it is about energy saving and improving equipment to use energy with high efficiency.



Likewise, the university announces energy-saving measures with the aim of fostering a shared culture among students and staff from all departments to achieve our set goals. In 2022, Walailak University’s electricity bill was 62,759,561.17 Baht, whereas in 2021, the electricity bill amounted to 38,994,391.00 Baht. As can be seen, the electricity bill statistics for Walailak University in 2022 increased compared to 2021 due to the COVID-19 pandemic. Walailak University implemented measures for online learning for students and work from home for staff to reduce the spread of the pandemic, resulting in a decrease in the electricity bill in 2021 during the COVID-19 pandemic. In contrast, in 2022, the situation returned to normal, with all students and staff studying and working on-site. This led to an increase in the electricity bill for 2022, totaling 62,759,561.17 Baht, whereas in 2021, the electricity bill amounted to 38,994,391.00 Baht.



### Carbon Footprint Assessment at Walailak University

Walailak University has established a carbon management process within the institution. There are plans to initiate an institutional research project titled “Carbon Footprint Assessment of Walailak University.” The primary objective is to assess the release of greenhouse gases (carbon footprint) resulting from various university activities. This assessment will adhere to the standard methods outlined by the Thailand Greenhouse Gas Management Organization (TGO), which categorizes the assessment scope into three distinct areas: Scope 1, encompassing direct greenhouse gas emissions; Scope 2, involving indirect greenhouse gas emissions from electrical energy consumption; and Scope 3, covering other forms of indirect greenhouse gas emissions.





### Walailak University's Vision to Zero Carbon University



Walailak University has a policy and plan aiming to reduce carbon, support, and conserve energy by emphasizing clean energy, renewable energy utilization, greenhouse gas emission reduction, environmental management and efficient energy management. This aims to Smart & Green University by the process of clean energy utilization and fossil energy utilization reduction:

◆ Electric Shuttle Bus Service as a transportation system within the university to serve students and staff, decreasing the use of personal vehicles to reduce carbon dioxide emissions.



◆ Solar Rooftop with an installed capacity of 2,000 kWp on the Center for Scientific and Technological Equipment building, and architectural building, car parks. Moreover, it reduced the burden of electricity costs by less than 30%.



In addition, the university has a process to help absorb carbon dioxide by increasing the number of trees around the university and various buildings, along with releasing oxygen gas that is beneficial to humans and animals, including planting trees in the building area to help reduce the use of air conditioners of the building.





**Walailak University Football Stadium**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



**DECENT WORK AND ECONOMIC GROWTH**

# 8

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◆ Walailak University Promotes the Non-discrimination in the Workplace at Walailak Community

◆ Appeal Policy and Procedure for Walailak Staff

◆ WU Policy on Extending the Period of Cooperative Education from 4 Months to 8 Months

# 8



## DECENT WORK AND ECONOMIC GROWTH

### Walailak University Promotes the Non-discrimination in the Workplace at Walailak Community

Since its foundation, Walailak University has adhered to justice, equality, and impartiality because these can lead to being inherently happier, more productive and more competitive for the university. WU is committed to being a world-recognized university in which everyone can work in the Walailak community with fair treatment of people regardless of any protected characteristics, such as race, gender, disability, religion, nationality, sexual orientation, or age. The diversity among the students, staff and faculty members can be found commonly at the university.



In 2022, women were the majority population of staff with more than 1,400 out of 2,535 working in all sectors and some of them were directors, deans, and vice presidents. The LGBT group also is a part of Walailak University which contributes to the university's success. Speaking of the diversity of nationalities and races, most of the English lecturers are from the Philippines, Indonesia, and African countries. These lecturers have an equal chance to excel, develop their skills, and progress in their careers as Thai lecturers.



Even though most population at WU is Buddhist, the university provides suitable facilities and chances to those who are not Buddhist, especially Muslim people. The Christians and Muslims have their own clubs as communities helping each other. In the Chor Pradu Food Center, a Muslim prayer room is provided for Muslim students and staff, including visitors. After the coup d'état in Myanmar beginning on the morning of 1 February 2021, Walailak University has been recruiting Myanmar students and academic staff. All Myanmar students studying at WU receive scholarships in order to help them complete their studies.



In order to be one of the most diversity-friendly universities, all types of diversity in the Walailak community are recognized, including external diversity, internal diversity, organizational diversity and worldview diversity. No matter whether they are liberal, conservative, women, men, transgender, young, adult, Thai, foreigners, Asian, African, European, American, disabled, or other kinds of diversity, these people are always welcome to the Walailak community so that they collaboratively contribute to the university's success.

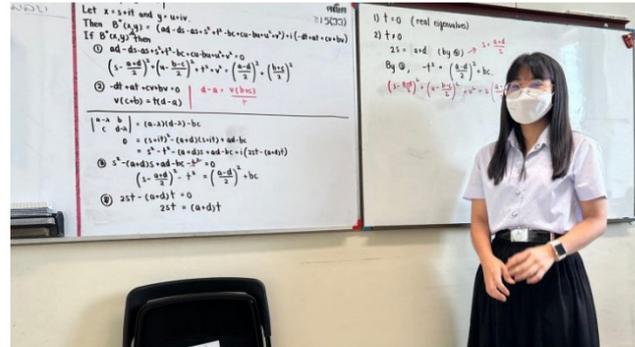
### Appeal Policy and Procedure for Walailak Staff





If Walailak staff receives a decision at work about a dismissal, disciplinary, grievance, or similar matter where the staff thinks that they have been unfairly or incorrectly treated, they have the right to make an appeal as Walailak University issued the University Regulations on Appeals, Complaints, and Consideration of Appeals and Complaints B.E. 2015 which has been active until the. The goal of the policy is to provide an effective channel of employee communication and to advance good governance within Walailak University in line with its vision of being a transparent workplace such as equal pay. This policy will be a significant power for all employees to give them the opportunity to challenge a decision that has been made and ask for the decision to be reconsidered and potentially overturned. However, with an excellent diversity-friendly atmosphere, no complaints have not been received under the leadership of Professor Dr. Sombat Thamrongthanyawong, President of Walailak University.

skills in all dimensions, including communication, leadership, teamwork, interpersonal, adaptability, self-management, computer, organization skills, problem-solving and others.



To guarantee the quality of cooperative education, Walailak University won three cooperative education awards in 2022, namely the Excellence Award for Cooperative Education Innovation and Excellent Cooperative and Work-Integrated Education (CWIE). As for the students, Mr. Tanva Thongkleang, a student from Computational Science, the School of Sciences, won the Excellence Award for the Cooperative Education Innovation



### WU Policy on Extending the Period of Cooperative Education from 4 Months to 8 Months

In the past, Walailak University provided cooperative education for its students for a 4-month period. However, the period was not enough for students to enhance their working skills to be prepared for their real working life.

Since 2019, Walailak University has been extending the period of cooperative education from a 4-month period to an 8-month period for Walailak students, ensuring that they are ready for any workplace and their employability. Cooperative education is a system that combines classroom learning with practical career work experience (work-integrated learning).

With the 8-month period of cooperative education, the students receive opportunities to enhance their working







# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



**INDUSTRY INNOVATION  
AND INFRASTRUCTURE**

# 9

- ◆ Walailak University's Patents and Petty Patents Citing Research
- ◆ WU Spin-offs: The Creation of Business Based on University's Knowledge
- ◆ The Remarkable Achievements in Research and Innovation Income Generation

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# 9



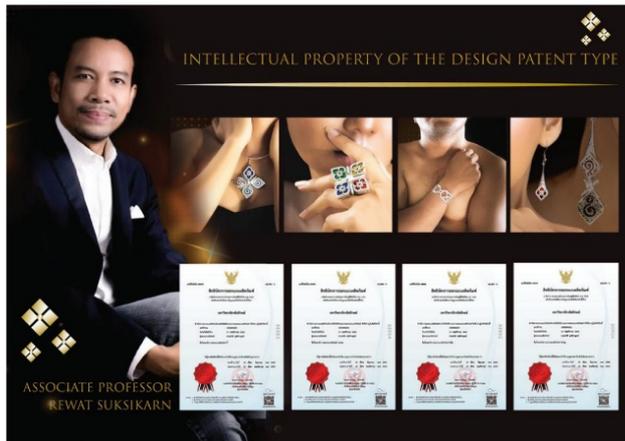
# INDUSTRY INNOVATION AND INFRASTRUCTURE

## Walailak University's Patents and Petty Patents Citing Research

Walailak University, through its Science and Technology Park, has consistently supported start-up and innovative business entrepreneurs, particularly the Deeptech Group, in gaining access to patent processes and legal knowledge through various activities, projects, funding and cooperation networks with the Department of Intellectual Property.

In 2022, Walailak University obtained a total of 24 patents citing university research to society and industry, comprising 13 regular patents and 11 petty patents, spanning various fields:

- ◆ The food group: food processing and food innovation
- ◆ The pharmaceutical group: cosmeceuticals and herbs
- ◆ The science group: medical science and biotechnology
- ◆ The architecture group: design
- ◆ The agriculture group: agricultural technology and fishery



The 13 regular patents were granted to the School of Architecture and Design and the School of Languages and General Education. They cover a range of items such as chairs, bracelets, pendants, rings, earrings, lamps, packaging label patterns, cup holders, tissue paper holders, box folding patterns and mirrors. Additionally, the 11 petty patents were awarded to the School of Science, the School of Engineering and Technology, the School of Allied Health Sciences and the School of Pharmacy for Ship Tracking Device with IoT Technology to Send and Receive Data and a Machine



Learning Platform System, Honeycomb Composite Wall, Device to Alert Against Touching Your Face, Process for Producing Orange Juice Powder from (Nipa Palm Vinegar), Odorless and Colorless Natural Rubber Production Formula and Process, Method for extracting Chlorophyll from Gotu Kola and Tiger Curry and Extracts using Vegetable Oil, Foldable Walking Aid, Selective Media for Culturing Dermatophyte Fungi Trichopyton Type, Bacterial Culture Formula for the Isolation of Burkholderia Pseudomallei, Clear Concrete Sample Formwork, and Technique for Drying Treated Wood by Controlling the Stress Value in the Wood.

Notably, one of the patents granted to Assoc. Prof. Dr. Nirandon Matan from the School of Engineering and Technology, titled "Technique for Drying Treated Wood by Controlling the Stress Value in the Wood," is a commercially viable technology. Its key advantages include system stability, durability, ease of use, low maintenance requirements, and the system also helps the factory dry the wood faster, lessen wood waste and reduce energy use from drying.





**WU Spin-offs: The Creation of Business Based on University’s Knowledge**



Walailak University actively supports the establishment of spin off companies to generate income and to apply the research findings for community benefits and as solutions to social problems. In 2022, two spin-off companies, Walaibiocontrol Co., Ltd. and Mangosto Co., Ltd., operated under the auspices of the Walailak Business Incubation Center, Science and Technology Park. These companies, originally incubated within the university, are still active and have been established for over 3 years. Moreover, it has made significant strides:

◆ **Walaibiocontrol Co., Ltd.** : This company specializes in producing and distributing agricultural biological products to benefit farmers. In 2022, it achieved a substantial revenue of 4,893,553 Baht.

◆ **Mangosto Co., Ltd.** : Mangosto is engaged in the production and preservation of fruits and vegetables using innovative methods. Their operations contribute to the local economy and offer unique services.

These two spin-off companies exemplify the successful application of research-driven technologies to generate income and foster commercial impact. The integration of research and business adds the economic value of local products, extends business opportunities and promotes environmentally friendly sustainable development based on university research innovations, which go in line with the economic development of the BCG Model.

The Agricultural and Biological Products by Walaibiocontrol Co., Ltd.



**The Remarkable Achievements in Research and Innovation Income Generation**

Walailak University, distinguished as a Frontier Research University, has demonstrated a commitment to producing high-quality research outcomes, leading to exponential growth in their research portfolio. In the fiscal year 2022, the university achieved substantial income by applying research innovations in the industrial sector, totaling 8,988,422.53 Baht across two mission groups:

◆ **Collaboration with Private Companies** : Walailak University collaborated with 13 private companies that utilized WU’s innovative research in various domains, including food supplements innovation, medicines, beauty products, pet products, and bio innovation derived from highly efficient fungi. This collaboration yielded a significant income of 8,111,422.53 Baht, further categorized into research income generated by STEM (3,006,407.06 Baht) and research income generated by medicine (5,105,015.47 Baht). This collaborative effort involved 614 academic staff, including lecturers and researchers.

◆ **Student-Driven Spin-Off Companies** : The university’s dedication to nurturing talent and innovation is evident in the establishment of two spin-off companies, Walaibiocontrol and Manggusto, driven by student who utilized research innovations. Moreover, there was an extension of bringing ideas to the contest and back with awards from 22 innovations, totaling prize money of 877,000 Baht.

To highlight, the example is the Outstanding Innovation, Innovation of the Year Trichoderma Five Plus (international standard biological products) from winning the international championship of Technology Transfer award “AABI torch Entrepreneur Awards for TECHNOLOGY TRANSFER model” from the Asian Business Incubation Association, Shanghai, China. The award “scheme” was organized to promote business acceleration and recognize outstanding entrepreneurs from more than 18 Asian countries, and the entrepreneur (Walaibiocontrol) from Walailak University was one of the proud recipients of the award.





The Wheelchair Ramp at WU Hospital



# SDG REPORT

WALAILAK UNIVERSITY 2022 – 2023



REDUCED INEQUALITIES

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- ◆ The Commitments and Aspirations to Reduce Inequalities at Walailak University
- ◆ Walailak University Provides Facilities for All: No One Left Behind
- ◆ Walailak University Signing MOU on the Development of Disabled Person's Life

10



# REDUCED INEQUALITIES

## The Commitments and Aspirations to Reduce Inequalities at Walailak University



Walailak University never discriminates on the basis of race, color, religion, national origin, age, disability, medical condition, genetic information, marital status, military status, ancestry, sex, gender identity or expression, sexual orientation, pregnancy, parental status or any other status to participate in the university.

In 2022, Thai students who come from poor backgrounds received scholarships funded by Walailak University and governmental organizations totaling 70,613,337 baht, of which 53,633,737 baht were supported by the university. One of the missions is to give scholarships to those students who are from low-income backgrounds or countries with all degrees. Both Thai and international students can access the scholarships, regardless of ethnicity, gender, skin color, religion, or other status.

Upon the coup d'état (coup) in Myanmar began on the morning of February 1, 2021, Walailak University placed importance on Myanmar students to gain scholarships and support them to complete their graduation.

Speaking of gender equality, in 2022, more than 2,200 women students participated in the university, which was higher than the number of male students. One of the achievements was the increased number of female students in engineering. When it comes to engineering, women are always the underrepresented group in the engineering industry due to the stereotype that women engineers are weaker and always suitable for softer roles. However, in 2022, 164 female students attended Walailak University in the field of engineering, while in 2021, there were 134. This demonstrates that female students in 2022 were more interested in engineering.

In the Walailak community, LGBTQ+ students have been more visible. They have their own rights to express themselves and participate in university activities, as women and male students do. The right of LGBTQ+ students to dress in uniforms and graduation gowns aligned with their genders is a significant movement at Walailak University to contribute to gender equality.



## Walailak University Provides Facilities for All: No One Left Behind

Walailak University has been providing facilities for students with disabilities so that they can complete their education. In addition, Walailak issued a policy titled "Disability Accommodation Policy, aiming to ensure facility provision among disabled students. At Walailak University Hospital, positive discrimination among disabled students is accepted.



Here are some facilities designed for disabled students and staff: Accessible Toilets, Wheelchair Ramps, Braille Block, Disability Signs and Disabled Parking.

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**Braille Block**



**Accessible Toilets**

These facilities not only served for disabled persons but for older adults, pregnant women and people with obesity. Besides the facility provision, the Smile and Smart Center of the Division of Student Support and Development provides consulting services for disabled students in university life. Disabled students can access the scholarships on the same terms as regular students throughout their academic journey, up to graduation. Walailak University also tracks the application to recruit more disabled students to study in the fields where they are underrepresented groups. WU believes that all the missions existing can spark motivation among disabled persons to participate in the education of Walailak University.

**Walailak University Signing MOU on the Development of Disabled Person’s Life**

The MOU on the development of disabled person’s life has been active for Walailak University which is a collaboration between the Department of Empowerment of Persons with Disabilities (DEP) and 86 educational institutions as well as network agencies. Walailak University has been transferring academic knowledge from the MOU to disabled persons, students, and staff of the university. The organizations at the university have established partnerships with other educational institutions to develop and conduct research projects, and to create innovations in accommodating disabled people’s lives.

Moreover, Walailak University has served as a learning center for assisting disabled persons with facilities and technologies.

Since the signing of the MOU, here are the missions WU has implemented for the past 3 years, including:

- ◆ Reviewing DEP policies and strategic development for the enhancement of the quality of life for disabled persons
- ◆ Developing and creating new innovations for disabled persons
- ◆ Integrating education to enhance the quality of life, potential development, and raise awareness of the rights of disabled people in Thai society
- ◆ Organizing regional, national, and international seminars to exchange ideas and experiences on the improvement of disabled people’s lives
- ◆ Expanding networks with organizations in Thailand and international organizations to collaboratively develop new innovations



**Disabled Parking**





**Nora Dance**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



SUSTAINABLE CITIES AND COMMUNITIES

# 11

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- ◆ Walailak University’s Center for Cultural and Sports Promotion Receives the Award for Outstanding Contribution to Culture and Tradition
- ◆ Walailak University Aiming for a Central Figure of the Green Campus
- ◆ Sustainable Commuting Practices to Make WU More Eco-friendly
- ◆ How WU is Improving Access to Affordable Housing on Campus for Students

## 11



# SUSTAINABLE CITIES AND COMMUNITIES

## Walailak University's Center for Cultural and Sports Promotion Receives the Award for Outstanding Contribution to Culture and Tradition

Preserving arts and culture is one of the essential missions of Walailak University that has been implemented since its foundation in 1992. The university has also been establishing cooperation with internal and external organizations to contribute to local and national culture and tradition. Walailak University organizes events featuring more than 30 local art performances per year and emphasizes recording those national and local intangible cultures and heritages through research and outreach activities.

Walailak University has been providing the online course titled "Nora Performing Arts" in collaboration with the Department of Cultural Promotion (DCP), Nora Masters and academicians. The course is freely open to the public as life-long learning and is expected to raise awareness among people to sustainably recognize the value of Nora Dance during the era of digital globalization.



## Walailak University Aiming for a Central Figure of the Green Campus

Walailak University has been developing its activities by adopting sustainability concepts. Also, the university aims to produce more graduates as the next generation of environmental leaders to protect the environment. Each year, Walailak University has been developing its environmental actions and improving all facilities to encourage students and staff to follow sustainable paths.

## ◆ Electric Shuttle Bus Service

Walailak University has been providing 20 electric shuttle buses for staff and students. There are 5 routes of shuttle bus services, including the campus, the student and staff dormitory area, the stadium, Walailak University Hospital, the library, Walailak Park and the outside areas of the university. The first bus leaves at 7 a.m.– and the last bus leaves at 9 p.m. every day. Basically, on each day, the bus services can serve an average of 6,414 passengers and operate about 628 times throughout the campus.

## ◆ Pedestrian Path Policy on Campus

Walailak University has organized a campaign called "Walk for Health" with the purpose of encouraging staff and students to use the covered walkway or pedestrian path to reduce GHG emissions. All buildings at Walailak University are connected by a covered walkway covered by roofs. It is for students and staff to walk and ride bikes. Moreover, the covered way has a light system throughout the route so that students and staff can walk safely.



## ◆ Solar Panels

Solar panels have been used at Walailak organizations as green energy to reduce GHG emissions. The organizations that have used the solar panels at Walailak University are The Center for Scientific and Technological Equipment, the Division of Waste Management Landscape Architecture and Environment, and the Center for Library Resources and Educational Media. In addition, the buildings that have adopted solar panels are learning centers for the Walailak community and the public to encourage them to use renewable sources of power. Walailak researchers are conducting research projects on solar energy in collaboration with the private and government sectors and disseminating the knowledge to local, regional, national and international communities.



◆ **Biogas**

The Center for Smart Farm of Walailak University has been adapting the biogas technology as alternative energy to reduce GHG emissions. The biogas is produced from food waste and animal waste. In addition, it can reduce the costs of farming resulting in the lower price of agricultural products produced by the farms.

**Sustainable Commuting Practices to Make WU More Eco-friendly**



Walailak University has set a goal to create a green environment and atmosphere on its campus as the Green University. In addition, the university has adopted energy-saving practices to reduce energy consumption, which directly causes climate change and harms living things on Earth.

Since July 14, 2018, Walailak University has adopted 20 electric shuttle buses equipped with CCTV cameras to guarantee safety. These buses serve Walailak students across the campus to minimize the use of private cars, accidents, as well as air and noise pollution. Many initiatives have been started to promote saving-energy practices, such as using LED lights and split-type air conditioners, the Solar Rooftop Project, the Joint Venture Project on Launching Solar Farms, and the Carbon Footprint Reduction Project.



Besides the purpose of mobilizing the projects, Walailak University gives priority to having educational activities for Walailak students on saving energy and protecting the environment.

The university encourages students to use pedestrians, bicycles, electric bicycles and all kinds of vehicles that support low-energy consumption. One of the predominant sustainable commuting strategies at Walailak University is the covered walkways that allow students to walk around and are accessible to all buildings. In order to improve pedestrian safety, Walailak University designated pedestrian crossings at intersections and major roads that can be risky for accidents. All roads adopt LED lighting with the improvement of traffic signs, footpaths and road maintenance that is consistent with national standards.

**How WU is Improving Access to Affordable Housing on Campus for Students**

Walailak University dormitories serve as a community for learning and caring. The Center for Property Management of the university is responsible for enhancing safety, minimizing risk, and ensuring hygiene and sanitation practices for all students staying in the dormitories. The students will have the opportunity to learn to live with other people peacefully and happily.

There are 15 dormitories for students, with a capacity of 5,500 beds with affordable prices compared to the outside dormitories. They are divided into four types, including Superior, Deluxe, Suite and Resident. In order to improve the quality of life, many essential facilities are needed, such as electric shuttle buses, the Chor Pradu Canteen, shops, photocopying and printing services, ATMs, post offices, the sports complex, parking lots and public spaces. All dormitories are equipped with coin-operated washing machines, smart vending machines, water dispensers, co-working spaces, fingerprint scanners and CCTV cameras.

In 2022, 56.17% of Walailak University students resided in Walailak University dormitories. The university is planning to build more dormitories as the number of students continually increases. Those dorms are being built with the concept of "Be as Your Home," which guarantees that all students will access affordable accommodation.





Recycling Bins



# SDG REPORT

WALAILAK UNIVERSITY 2022 – 2023



RESPONSIBLE CONSUMPTION  
AND PRODUCTION

# 12

- ◆ Waste Tracking System for Enhanced Waste Reduction
- ◆ Waste Tracking Methods to Track the Amount of Recycled Waste and Waste Sent to Landfills at WU
- ◆ The Activities Under the Policy of Minimization Plastic Use at WU

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# 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

## Waste Tracking System for Enhanced Waste Reduction

Walailak University has taken proactive steps to institute a waste tracking system aimed at reducing the waste generation within the university. This comprehensive waste management approach unfolds in stages as outlined; step 1: the process begins with an awareness campaign that employs video media to sensitize the Walailak community to the importance of waste reduction. The focus is on preventing food waste and encouraging the segregation of waste into distinct categories for recycling. To further facilitate this, an online notification system alerts designated staff members when waste bins are nearing capacity. Subsequently, the staff ensures the separation and proper disposal of waste into dedicated collection points; step 2: with each type of waste properly arranged at designated locations, waste collection is organized efficiently. Garbage trucks follow a schedule tailored to the type of waste, ensuring effective management. The quantity of waste generated is meticulously tracked to optimize the collection route for garbage trucks; and the last: the final phase encompasses the assessment of waste quantities and their classification. The key criteria are ‘recycle,’ and ‘disposal.’ The ‘recycle’ category involves various processes, such as anaerobic composting to produce biogas and the creation of fertilizers for agricultural use. Moreover, food waste designated for ‘recycle’ is directed to the university’s swine farm. Waste in the ‘disposal’ category, indicating it is no longer viable for use, undergoes incineration or is sent to a landfill.



## Waste Tracking Methods to Track the Amount of Recycled Waste and Waste Sent to Landfills at WU

Walailak University has the process of waste tracking and waste sorting for the volume of waste implanted by the Division of Waste Management Landscape Architecture and Environment. Waste disposal at WU is implemented by various methods, depending on the types of waste. Moreover, Walailak University also employs five different colored bins for waste separation: Green, Blue, Yellow, Dark Red and Red.



At present, WU implements waste sorting with two methods, depending on the types of waste.

### ◆ Recycled Waste Sorting

Walailak University has a recycling waste process to turn the waste into something that can be used again. The waste might be the same or transformed into an other item for other functions. Most of the recycled waste at WU is inorganic waste. The inorganic waste that cannot be recycled at WU will be sold to the industrial plants of private companies. In addition, WU recycles the organic waste produced by all foot outlets at WU as animal feed and compost.

### ◆ Non-recyclable Waste Sorting

Non-recyclable waste, including metal, rubber, fabric or organic waste with long-term biodegradability, will be sent to landfills. However, Walailak University never supports sending waste to landfills but rather finds new technologies or solutions to recycle all types of waste as much as it can. Sending waste to landfills is the last resort for waste management at WU.

In 2022, each type of waste will contain various volumes collected from all waste collection points on campus. The total volume of waste in 2022 was 812.28 metric tons, or 2.25 metric tons per day, of which the recycled waste was 536.635 metric tons, or 1.49 metric tons per day, accounting for 66.06% of the total volume





of waste. Meanwhile, the amount of waste sent to landfills was 275.645 metric tons, or 0.77 metric tons per day, accounting for 33.94% of the total volume of waste.

The record suggests that the amount of recycled waste in 2022 increased significantly compared to 2021, meaning a 37.28% increase. Meanwhile, the amount of waste sent to landfills decreased by 27.28%. More importantly, the population at Walailak University tends to increase by 13.57%, which means the amount of waste might increase. However, since 2021, the volume of waste at WU has decreased significantly due to the consistent enforcement of the policy on waste reduction and waste reduction campaigns organized every year.



**The Activities Under the Policy of Minimization Plastic Use at WU**

Walailak University has a policy to reduce plastic waste. It was drafted as a practice guideline in 2019 and has been revised and implemented in 2022. Consequently, the University has a campaign for students and staff to “reject plastic

bags” with the concept of reducing waste for a zero-waste life: carrying a cloth bag for shopping in the university market, and reducing plastic packaging in food and beverage shops for plastic waste reduction on campus.

The university has measures for shops to stop giving free plastic bags except for ready-to-eat food with plastic bags made from recycled raw materials, bioplastic bags or paper bags and cancel the use of foam containers and breakable plastic bags with handles. Others are switching from single-use plastic cups to bioplastic-coated paper cups, and the bring your own cup promotion at beverage shops. Also, food venders are required to reduce the use and distribution of single-use plastic spoons, forks and straws to shoppers unless requested by the buyer.



As a result of policies or campaigns, shops within the university are alert to comply and refuse to use single-use plastics or foams, opting for plastics or materials that are naturally biodegradable, such as wrapping with banana leaves, food containers from bagasse and drinking straws from paper. Besides, there is an effort to reduce plastic use in the project "Bring a cloth bag for your medicine, refrain from using plastic bags to help reduce global warming and reduce waste problems" at Walailak University Hospital.

The university instills students and staff to use the 7R principles (Reduce, Reuse, Recycle, Refuse, Refill, Repair and Return) to reduce waste on campus to zero or create as little waste as necessary. Additionally, Knowledge and practices are encouraged to be passed on to family members, colleagues and friends in the world to create a waste-free society and create a livable world, helping to preserve the environment in our world to remain sustainable forever.

policy: <https://cas.wu.ac.th/sdgs/wp-content/uploads/sites/3/2022/11/Announcement-of-Walailak-University-Subject-Policy-on-SingleUse-Plastic-Waste-Reduction.pdf>





**WU's Landscape outside Thai Buri Building**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



CLIMATE ACTION

# 13

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- ◆ The Climate Education by Walailak University in Trang Province
- ◆ WU's Collaboration on Climate Change Adaptation with Government Sectors, Private Sectors and NGOs
- ◆ The Platform for Agricultural Water Management in Community with Mobile Cloud Computing: Monitoring and Predicting Drought Caused by Climate Change

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## CLIMATE ACTION

### The Climate Education by Walailak University in Trang Province

Walailak University was invited by the Provincial Office of Natural Resources and Environment in Trang Province to provide local education programs on global warming and climate change. This initiative was an outstanding effort to educate Natural Resources and Environmental Protection Volunteers (NEV) in Trang Province on various aspects, including Thailand's climate policies, operational guidelines and the assessment of greenhouse gas emission in the province.



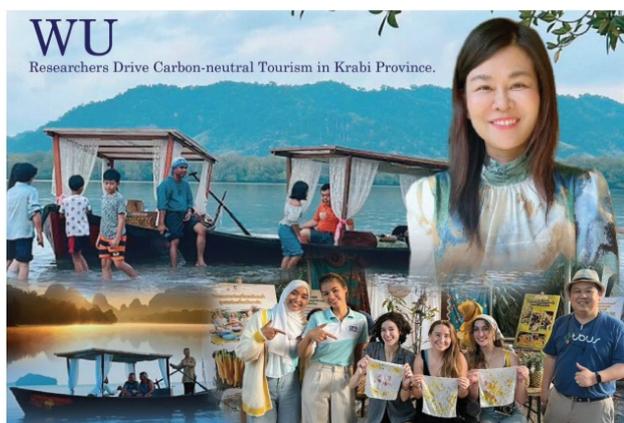
During the training, the Walailak University lecturers covered essential topics such as global warming, climate change policies, climate adaptation strategies, the essence of tree banks, and the process for obtaining certification to measure greenhouse gas reduction (LESS). They also emphasized the significance of tree planting for both income generation and carbon reduction.

The participants in this training program included NEV network committee members, local stakeholders, a group of dedicated lecturers from Walailak University, representatives from the Bank for Agriculture and Agricultural Cooperatives of Trang Province and members of the Ban Santang Tree Bank Community Enterprise. This collaborative effort underscores the commitment to environmental awareness and climate action in Trang Province, Thailand.



### WU's Collaboration on Climate Change Adaptation with Government Sectors, Private Sectors and NGOs

In the present, the observed effects of climate change such as unusual hot weather, unseasonal rain and more severe weather conditions are caused by carbon dioxide emission and other greenhouse gases emission into the earth's atmosphere. The issue is an urgency that many agencies need to pay more attention. As one of those, Walailak University gives importance to climate change; it supports researchers in conducting research to tackle climate change, especially by partnering with government sectors, private sectors and NGOs.



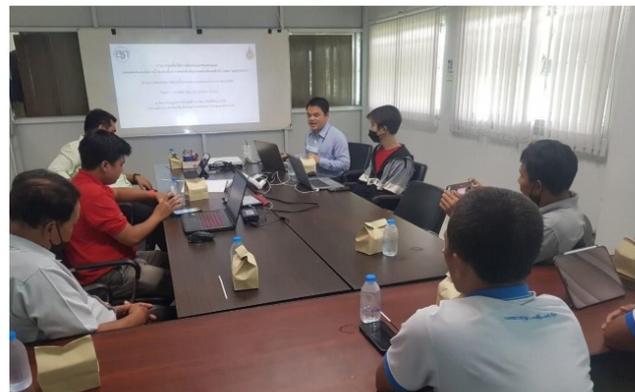
A research team at WU has collaborated with both public sectors private sectors and NGOs to drive the research on **“Developing Carbon-Neutral Tourism in Krabi Province and Connected Areas”**. It aims to study and evaluate the carbon footprint of tourism, to analyze the Thai and foreign markets for product and service development to support tourism, and to create a network for collaborative efforts to calculate, reduce, and compensate for the carbon emissions generated by tourism.





To achieve carbon-neutral tourism requires conducting carbon footprint assessments for further actions in decreasing carbon emissions. All involved agents have to take immediate actions and adjust their ways accordingly, particularly in transportation and waste management – the major carbon emission influence. Consistently, it is essential to implement carbon reduction measures that align with the Krabi Declaration.

Prior to the implementation of the program, the agriculturists in Don Tako subdistrict faced a drought disaster affecting their careers and incomes. The subdistrict’s water scarcity as the water supply ran deep underground indicated a natural effect of climate change.



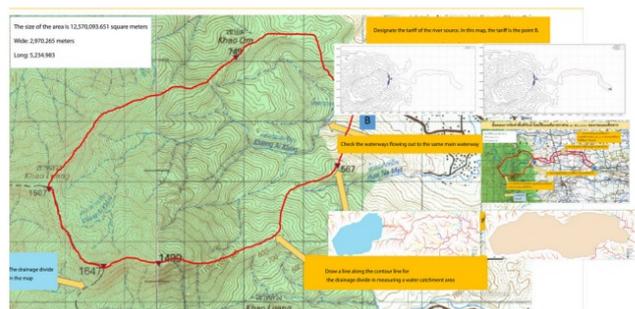
### The Platform for Agricultural Water Management in Community with Mobile Cloud Computing: Monitoring and Predicting Drought Caused by Climate Change

Walailak University, through the Center of Excellence in Sustainable Disaster Management, partnered with the Agricultural Research Development Agency (ARDA), a government organization of the Ministry of Agriculture and Cooperatives, to conduct an educational outreach program titled “The Platform for Agricultural Water Management in Community with Mobile Cloud Computing”.

Thus, Walailak University represented by Assoc. Prof. Dr. Ajalawit Chantaveerod and his team, have been organizing the educational outreach program to give an opportunity for those agriculturists to access expertise, technologies, and knowledge and to make connections that they would not otherwise have.

The project aims to provide the local people in Don Tako subdistrict with a toolkit to manage water resources to tackle drought disasters. In Thailand, drought impacts many sectors of the economy and can last from just a few weeks or months to multiple years, especially in the northeast region of the country.

The platform serves as an analyzer of the appropriate volume of water using the information on the cloud. In addition, it contributes to the analysis of the mathematical modelling for the water flow paths and catchment areas. The platform was developed both in the form of web and mobile applications. Every step of the development process involved all related stakeholders to ensure that they participated in every decision-making process.





The release of baby blue crabs



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



LIFE BELOW WATER

# 14

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- ◆ **Blue Swimming Crab Restoration Project: Increasing crab population and improving fishermen livelihoods**
- ◆ **Artificial fish habitat: enhancing species diversity and ecosystem services**
- ◆ **Water Resource and irrigation Management in Pak Panang Basin: Stakeholder participation and co-management strategy**
- ◆ **Ban Haad Som Boon, WU research area, is selected as one of the best five role models of SDG Learning communities.**

## 14



## LIFE BELOW WATER

### Blue Swimming Crab Restoration Project: Increasing crab population and improving fishermen livelihood

Assist. Prof. Dr. Amonsak Sawusdee, Lecturer in Marine Science and Director of the Center for Academic Services, has been a continually operating large-scale research project that aims to restore the crab population in natural water and also improve fishermen's income. Walailak University Blue Crab Bank project presents the project's success scheme, as a model research project, under the title "Creating the Blue Crab Bank Network for BCG Economic Model-based development" in a national research congress, the NRCT Open House 2022. The project has expanded its impact scope from biological resource restoration to socio-economic development such as tourism and marketing approaches in Nakhon Si Thammarat and Surat Thani provinces. Testifying its success, the project had earlier earned several national recognitions – the Excellence Award for Learning Center of Fishery Restoration, the Excellence Award in Thailand Research Expo, and recently the Excellence Award in Innovation Supported Thai Economic Growth awarded by the Ministry of Agriculture and Cooperatives of Thailand. Moreover, Assist. Prof. Dr. Amonsak Sawusdee received The Best Thai Lecturer Award in environmental and social contribution (ASAIHL THAILAND OUTSTANDING ACHIEVEMENT AWARD 2022)

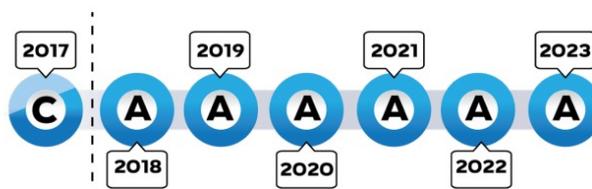
<http://www.asaihlth.in.th/2022/11/30/asaihl-award2022/>.



The project has been continually operated from 2018- 2022 and remained in 2023. In this project, 84 crab-enhanced stations were operated. More than 50,000 mother crabs and their larvae were also released back into natural waters by fishermen. Local fishery communities were educated about crab restoration techniques and ecological improvement methods. The outcomes of this research are that fishermen in Nakhon Si Thammarat and Surat Thani provinces take action themselves to publish an agreement protecting 500 meters from the shore as aquatic nurseries. The findings from this research also support fundamental knowledge for fishery policy makers (Department of Fisheries) to establish Fishery Refugia areas in order to

save small crabs and other species. Moreover, Fishermen increase their awareness of saving juvenile animals. They do not catch small crabs that their size lower than 10 cm.

Research findings also benefit for Thai fishery in terms of improving the FIP score (<https://fisheryprogress.org/>). Thailand was leveled as a C in 2017. With the project being conducted, the scale rose to A from 2018 to 2023. This improvement earns and sustains the country's seafood export on a global scale because, nowadays, more and more international buyers pay attention to the FIP score.



### Artificial fish habitat: enhancing species diversity and ecosystem services

The Center for Academic Services (CAS), Walailak University, annually runs an artificial fish habitat project. In 2022, CAS as head of projects invited several partners such as the Department of Fisheries, the Department of Marine and Coastal Resources, the Subdistrict Administrative Organization and the Provincial Administrative Organization to generate marine protected project related SDG 14. The project areas cover Tha Sala District, Nakhon Si Thammarat province, and Tha Chana District, Surat Thani province. Artificial fish habitat is the activities to build houses for fishes and improve the complexity of nearshore ecosystem in order to maintain and extend biodiversity and food chain, especially in the coastal areas.



The constructed materials, such as coconut huts, bamboo, and coconut leaves, were natural. From the survey, there are a large number of small fishes living in the





constructed habitats. Therefore, the fishermen believed that artificial fish houses could improve abundance and biodiversity, which benefits local fishermen. The process of building the fish house is to pitch the bamboo on the ground at sea with the fisherman's hands. Next, use fresh and dry coconut leaves attached to the pavilion. Additionally, fish houses have a little channel for juvenile and baby animals to stay inside to grow up and hide from predators.

Walailak University in cooperation with local communities and stakeholders has plan to drive this project every year in order to improve both ecosystem services and fishermen's awareness. This project also aims to create an opportunity for fishermen to protect their resources themselves and to sustain fishery resources in the future.

**Water Resource and irrigation Management in Pak Panang Basin: Stakeholder participation and co-management strategy**



Walailak University, through the Center of Excellence in Sustainable Disaster Management and the Center for Academic Services, organized the meeting for water management brainstorming in the irrigation area in the Pak Phanang River Basin which covered 14 subdistricts in Pak Phanang district and Hua Sai district, Nakhon Si Thammarat. In the activity, WU provided an event for all stakeholders around the river basin to exchange ideas on suitable water management to be used all year including water allocation that meets the needs of the agriculturalists. In addition, those agriculturalists expressed ideas on water security strategies. This project was implemented through cooperation between Walailak University, the Office of the Royal Development Projects Board (ORDPB), the Administration and Coordination Center for Pak Phanang River Basin Development, the Regional Irrigation Offices,

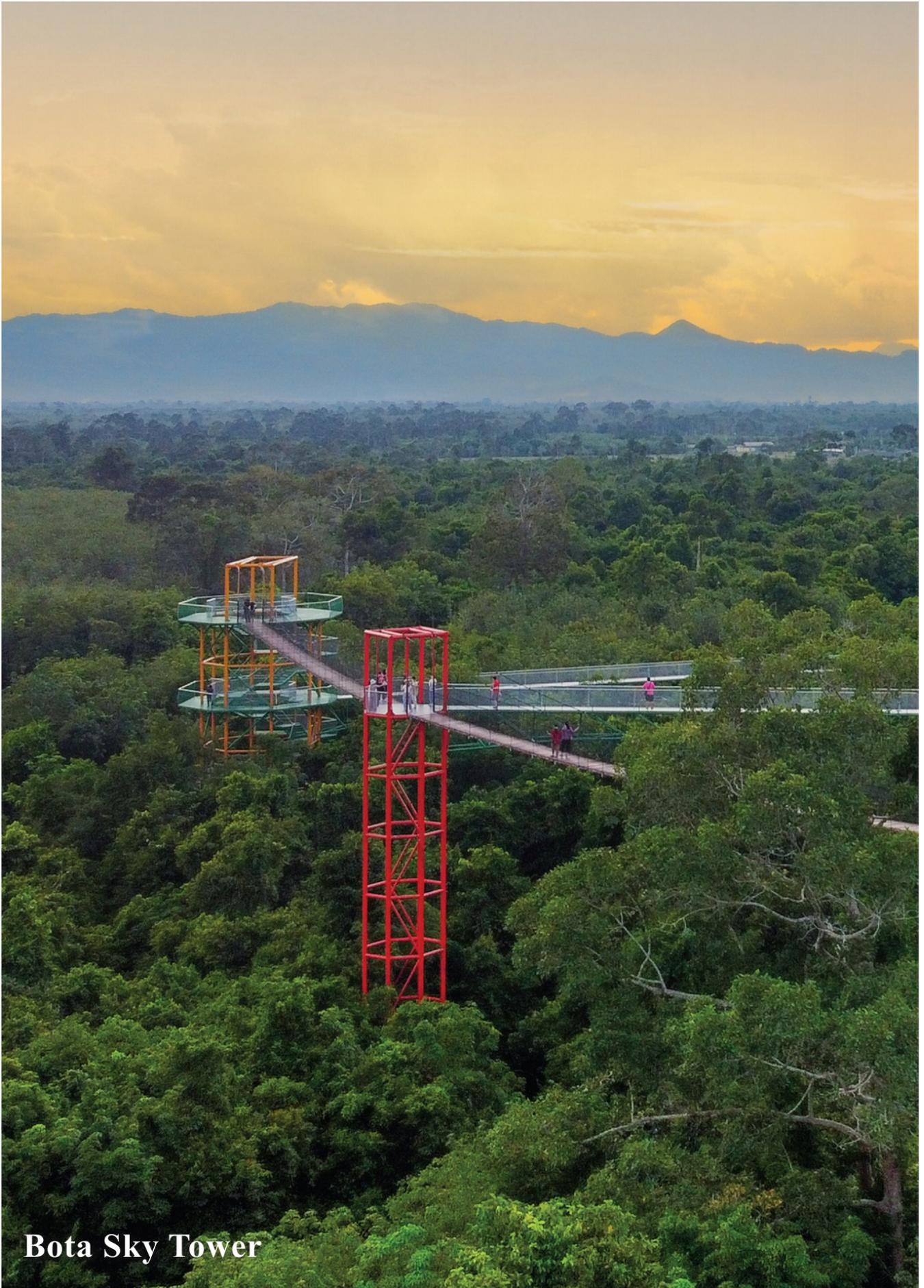
local governments, and subdistrict administration organizations. The water management was implemented based on stakeholder's needs and monitoring the volume of fresh, brackish and seawater. The abundance of fauna and flora species are taken into consideration in management strategies.

**Ban Haad Som Boon, WU research area, is selected as one of the best five role models of SDG Learning communities.**

The International Health Policy Program, Thailand (IHPP) announced that Ban Haad Som Boon, where the restored blue crab project is operated, was selected as one of the best five communal role models linked to SDG learning communities. The SDG learning area is part of the project titled "The Learning Circle Creation for the Sustainability of Thailand". The project aims to be an important milestone in starting the creation of a mechanism for bringing information to policy agenda setting through the preparation of situational information and identifying gaps in the implementation of Sustainable Development Goals in Thailand.

The Blue Crab Bank has been supported by Walailak University's Center for Academic Services for five years to provide educational outreach on sustainable crab fishing following SDG 14: Life below Water. The crab restoration program has been successfully generating a large natural population of blue crabs, allowing the fishermen to catch a higher volume of crabs compared to the catch rate before starting the project, thereby increasing household income. In the future, all five SDG learning communities will disseminate knowledge to other areas to mobilize the UN's Sustainable Development Goals for Thai society.





**Bota Sky Tower**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



LIFE ON LAND

# 15

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- ◆ The Events of conservation and Sustainable Utilization of Watershed Forest and Local Plants
- ◆ The Bio-diversity Conservation at Walailak University
- ◆ The Learning Center for Sustainable Agricultural at Ban Khao Wang Community
- ◆ The Stakeholder Participation in Conservation and Restoration of Up-stream Ecosystems

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## LIFE ON LAND

### The Events of conservation and Sustainable Utilization of Watershed Forest and Local Plants

Walailak University is actively engaged in the “Children’s Forest Conservation Project: Raising youth awareness of protecting watershed forest and local plants, 2022” by organizing events that aimed to promote conservation and sustainable utilization of land, including the watershed forest and local plants at the area of Ban Ai Mi community, Village No. 5, Wang Ang Subdistrict, Cha-Uat District, Nakhon Si Thammarat Province.



The events were :

- ◆ Trekking activity to learn about the watershed ecosystem and local plant species of the community on the nature trail
- ◆ Activities to plant native trees to expand the water-absorbing forest area along the creek edge and in the community arable land, which will increase the water-absorbing forest area and increase trees for future occupation and income
- ◆ Activities to disseminate knowledge about ways to use local plants as food and toys
- ◆ Activities to promote people’s basic knowledge in grafting and cuttings for community self-reliance on planting and propagating trees



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### The Bio-diversity Conservation at Walailak University

Walailak Botanic Park (WBP) is a learning center on ecology and conserving biodiversity in the university’s original forest area with a variety of native plants and birds living in the protected areas of the botanical park.

As Walailak University strives to conserve and expand the existing ecosystems and biodiversity of plants and animals, the WBP grounds are well-designed to serve various ecology conservation functions and promote bio-ecological



- ◆ Herbal Garden, with its collection of over 200 types of local and rare medicinal plants grown in an area of 16,000 square meter
- ◆ Banana orchard farm, with more than 100 different types of bananas from all over the country
- ◆ Drought-resistant greenhouse/ desert trees
- ◆ The Nepenthes greenhouse, which collects various species of Nepenthes plants – local species, commercial species and new species of Nepenthes discovered by researchers from Walailak University, propagated and grown in the greenhouse with the environment adjusted to imitate their natural ecosystem.
- ◆ Ginger and galangal plants being collected and propagated, including the common and the rare ones in ginger and galangal family.
- ◆ Bamboo Living Collection, which is a collaboration with the Thasala Rotary Association to grow and collect bamboo species from all over Thailand, with a focal point on the varieties in Nakhon Si Thammarat and the southern region; the area promotes bamboo planting, propagation, and research work on bamboo consumption.



### The Learning Center for Sustainable Agricultural at Ban Khao Wang Community

Ban Khao Wang community is another Pak Phanang upstream community that has integrated farming, also known as Suan Samrom (multispecies cropping system), where various types of crops are grown in the same plot. The community's flagship is to run safe agriculture by using biological substances instead of chemicals in agriculture so that they can restore and maintain the communal upstream ecosystem from which natural water supply is drawn for household consumption.

Walailak University by the Multispecies Cropping System Community Research Center Project Following in King's Footsteps, Ban Khao Wang, has carried out educational program for local communities on sustainable management of land for agriculture and tourism. The programs include a training program to educate farmers on using biological substances (*Trichoderma asperellum* strain NST-009, *Metarhizium anisopliae*, *Beauveria bassiana*) in place of chemicals, thus raising more awareness on ecosystem.

After receiving the Sippanondha Ketudat Award, a continuation of the Green Globe Award, Community Category in 2022, the community operates community nature study trails as a learning center and welcome visitors to learn the agricultural methods of multilayer cropping system.



### The Stakeholder Participation in Conservation and Restoration of Upstream Ecosystems

Walailak University has carried out action research under collaboration with local community to conserve and restore the shared land ecosystem of upstream community at Ban Khao Wang Community, an important watershed area

of Nakhon Si Thammarat Province. Not only conserving and restoring the watershed ecosystem in the community, the project also helps preserve the water resources that supply the larger group of Nakhon Si Thammarat people. The conducted activities include the creation of database of local plant species in the nature study routes, educational training on ecosystem-friendly farming by the use of biological substances in place of chemicals, training in cardamom tree value-added product development, and planting trees and creating weirs for watersheds. These activities are made possible by cooperation with Ban Khao Wang Conservation Group, Ban Khao Wang Border Patrol Police School, and the support of related agencies: Forest Resource Management Office No.12 (Nakhon Si Thammarat), Ron Phibun District Agricultural Extension Office.



Steady provision of activities and promotion of ecosystem understanding make the community a learning hub on conservation and restoration of upstream ecosystems, as well as on ecosystem-supported farming, that attracts visitors from within the province, the region and from all over the country to exchange knowledge. Ban Khao Wang community has received the "Green Globe Award" in the community category for resource management, the National runner-up award for community forest and large tree management inheritance of the land of Nakhon Si Thammarat Province.





WU Moot Court



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023



PEACE AND JUSTICE  
STRONG INSTITUTIONS

# 16

- ◆ Walailak Student’s Union: The Voice of Students for Enriching Student Life
- ◆ WU Promotes Stakeholder Engagement to Build Peace and Participate in University Decision-making
- ◆ WU Ranked A in the 2022 Integrity and Transparency Assessment (ITA)
- ◆ Walailak University Committing to Publish Financial Data for Transparency

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# PEACE AND JUSTICE STRONG INSTITUTIONS

## Walailak Student's Union: The Voice of Students for Enriching Student Life

The Walailak University Student Union was established in accordance with Walailak University Regulation on Student Union, B.E. 2540. The union members elected to represent all Walailak students and voice students' problems related to academic life, living condition, general political and social environments. In addition, the Student Union is responsible for expressing its opinions to the university's decision-making regarding policies, principles, action plans, and others and serving as the hub for student activities through clubs, associations, and events.

In order to build a solid student union to represent the student voice thoroughly, all schools at Walailak University have their own student associations, such as the Law Student Association, the Medical Student Association, the Allied Health Sciences Student Association, and so on. These school associations are responsible for running activities in their schools, allowing more people to be involved in social activities and be able to freely and rightly express themselves.

For more details, visit [https://www.facebook.com/Student.Council.WU/?locale=th\\_TH](https://www.facebook.com/Student.Council.WU/?locale=th_TH)



## WU Promotes Stakeholder Engagement to Build Peace and Participate in University Decision-making



At the Walailak Research Convention 2022, the Center of Excellence for Local and City Governance at Walailak University organized a meeting to inform the university's actions for stakeholders surrounding the university. Walailak University invited all direct stakeholders to participate in the meeting, including the representatives of local government units in Thasala district, Deputy Chairmen of Subdistrict Administration Organizations (SAO), members of the SAO, Heads of Health Volunteers, and the health of villages to ensure that what WU created or produced would not affect to the livelihood of those communities as the university aimed to shape the society in Tha Sala district to be peaceful.

The meeting also served as a neutral platform for everyone to frankly discuss and collaboratively create a reconciliation roadmap, making it a win-win situation and ensuring that all stakeholders were involved with the university's decision-making. At the meeting, WU openly asked all stakeholders what the university needed to improve on, which may cause dissatisfaction among them. In addition, the meeting received an honor from Cr. Jenny Hill, Australian Mayor of Townsville, Queensland, who shared her perspective on the development of Townsville city.

Besides providing a neutral platform to frankly discuss, WU presented the guidelines and policies to those local governmental organizations to mobilize Tha Sala City towards a city of peace, including crime control models, career enhancement, natural resource rehabilitation, urban planning, and others.

Walailak University has realized that all these stakeholders might gain or lose a lot based on how well WU contributes to and positively transforms the human, social, economic, and environmental conditions of the city. Thus, WU



asserts that what the university produces or does will not affect any stakeholders, demonstrating how well WU contributes to stewardship.



### WU Ranked A in the 2022 Integrity and Transparency Assessment (ITA)



In the fiscal year 2022, the National Anti-Corruption Commission reported that Walailak University received 92.46 points on the Integrity and Transparency Assessment (ITA) by the National Anti-Corruption Commission (NACC), which is higher than that of the fiscal year 2021. The ITA prioritizes the Integrity and Transparency Assessment of government organizations' performance, focusing on the development and strengthening of "Proactive Anti-Corruption Mechanisms", which all public agencies must implement. It is expected that the organizations participating in the assessment will acknowledge and understand the assessment results as well as develop approaches to elevating organizational performance in terms of integrity and transparency.

In addition, Walailak University has the policy to provide the comment boxes at every organization of the university to frankly display to ensure that people's voices matter.

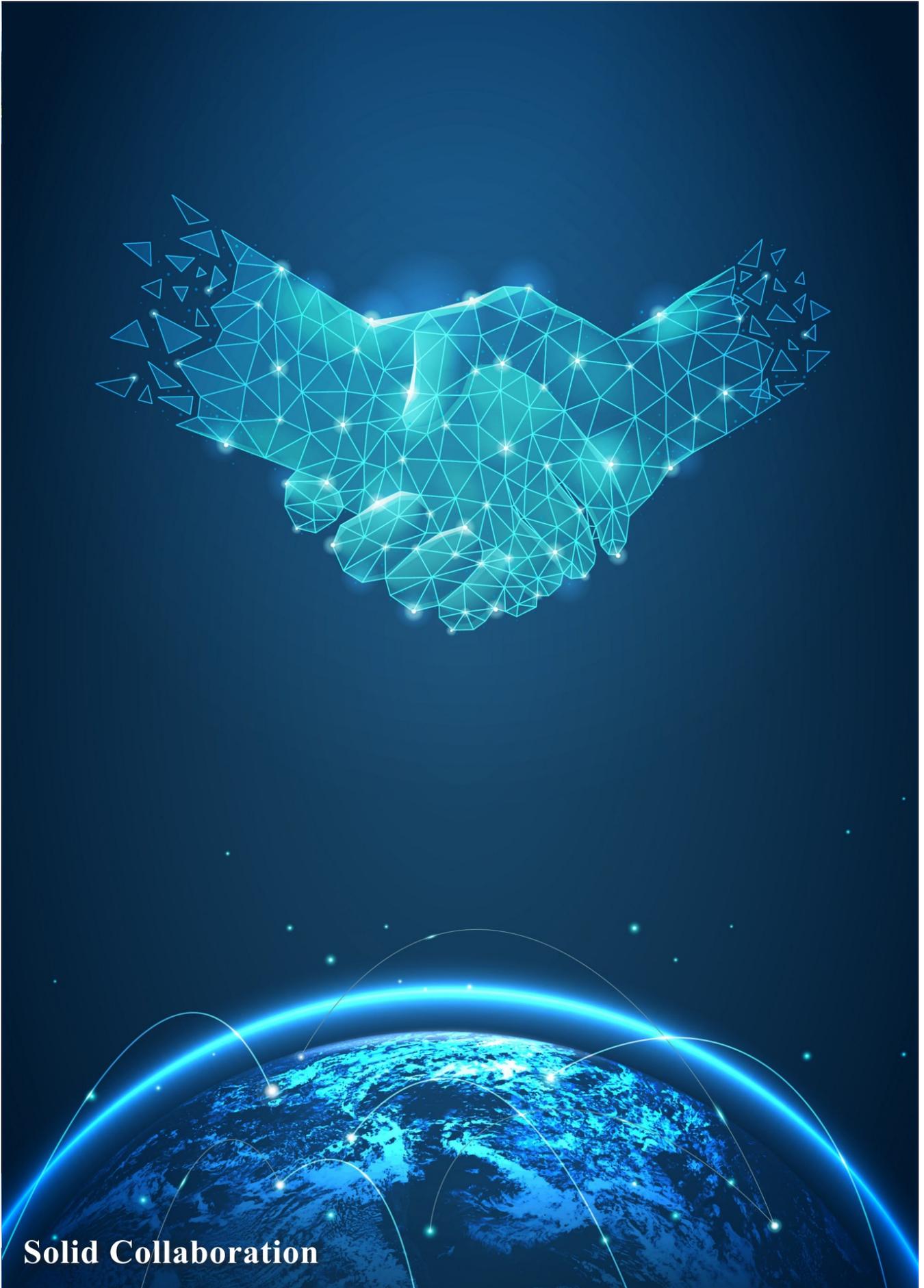
Such outstanding achievement was due to the wide vision of Prof. Dr. Sombat Thamrongthanyawong, President of Walailak University, who always supports engaging with the ITA. In the future, Walailak University will mobilize itself toward a university to achieve effective and efficient results under good corporate governance, transparency, and accountability.



### Walailak University Committing to Publish Financial Data for Transparency

Walailak University publishes financial data every year to ensure its transparency and inform the citizens and all stakeholders in its functions. The Division of Finance and Accounting of Walailak University is the main organization responsible for publishing financial data. In addition, Walailak University always works with the State Audit Office of the Kingdom of Thailand to assess the financial statements for transparency. Since its foundation, Walailak University has been following all the policies and principles of the State Audit Office of the Kingdom of Thailand. For more information on the report of the financial assessment of Walailak University, click [https://finance.wu.ac.th/?page\\_id=325&lang=th](https://finance.wu.ac.th/?page_id=325&lang=th)





**Solid Collaboration**



# SDG REPORT

## WALAILAK UNIVERSITY 2022 – 2023

中国福建开放大学华侨学院东盟-曼谷学习中心  
ศูนย์กลางการเรียนรู้อาเซียน-กรุงเทพฯพมทนคร วิทยาลัยจิวโพมท-เล มหาวิทยาลัยเปิดบุรีรัมย์

瓦莱崙大学分中心揭牌仪式  
พิธีเปิดป้ายศูนย์สาขาพมทวิทยาลัยวลัยลักษณ์



**PARTNERSHIPS  
FOR THE GOALS**

# 17

- ◆ Walailak University Establishes the Regional Partnership with Nakhon Si Thammarat Province for Sustainable Provincial Development
- ◆ The STT48: The International Cross-Sectoral Congress Towards SDGs
- ◆ The Internatinal Collaboration between Cambodia - GIZ, Walailak University in promoting health professional education
- ◆ National Collaboration: WU signing an MOU with TISTR to Promote Academic Workforce and Entrepreneurs of Science, Technology and Innovation (STI)

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# 17 PARTNERSHIPS FOR THE GOALS

## Walailak University Establishes the Regional Partnership with Nakhon Si Thammarat Province for Sustainable Provincial Development

One of the factors contributing to the rapid development of Nakhon Si Thammarat is the establishment of Walailak University in the province. The university always cooperates with the private, government, and NGO sectors to adopt new technologies in developing the province, indicating that the rich potential of Walailak University and those sectors can lead to finding innovative solutions to tackle SDG problems.

In 2022, the university partnerships with the Nakhon Si Thammarat Governor’s Office were strengthened by Mr. Kraisorn Wisitwong, Governor of Nakhon Si Thammarat Province under the goal to collaboratively set policies in developing the economy and society and solving environmental problems. Since Walailak University is staffed with experts on technology, urban planning, climate change, and other topics that impact the province, it can offer invaluable time, energy, and resources that the province sometimes lacks.



The other organizations that joined the partnerships were the NST Chamber of Commerce, Nakhon Si Thammarat Provincial Agricultural Extension Office, Nakhon Si Thammarat Provincial Office of Tourism and Sports, and the Office of Provincial Commercial Affairs Nakhon Si Thammarat.

The development framework comprises the following six targets:

- ◆ Inclusive Agricultural and Industrial management
- ◆ Tourism Development Based on Nature, Culture, Dharma, and Art
- ◆ Sustainable Management of the Environment and Natural Resources
- ◆ Human Resources, Society, and Community Development Based on the Philosophy of Sufficiency Economy
- ◆ Maintaining Provincial Security
- ◆ Promoting Religion, Art, and Culture



## The STT48: The International Cross-Sectoral Congress Towards SDGs

In 2022, the 48th International Congress on Science, Technology, and Technology-based Innovation, one of the long-lasting annual scientific meetings in Thailand was organized at Walailak University.

The congress’s theme Science and Technology for Advancing Towards SDGs gave scientists from all around the world a special opportunity to realize the importance of science and technology in addressing global challenges and finding long-term solutions that are advantageous to all.



The international congress was arranged by the Science Society of Thailand under the Patronage of His Majesty the King in collaboration with Walailak University with more than 500 overseas and local participants from 18 countries. The congress included 5 sessions and 9 symposiums chaired by eminent scientists. The technical program was rich and varied with 4 keynote speakers, 4 plenary speakers, and 68 invited speakers worldwide.

Walailak University President Professor Dr. Sombat Thamrongthanyawong, on behalf of the host of STT48 said, ‘Walailak University is ready to be a part of global and fron





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and Well-being which improves the education of health professionals among students and health research.

The GIZ project has two priority areas and one of them is to improve the governance of health professional education in Cambodia. The Cambodia team considered that Walailak University, in Thailand, has the potential to serve its mission.



**The Internatinal Collaboration between Cambodia -GIZ, Walailak University in promoting health professional education**



**National Collaboration: WU signing an MOU with TISTR to Promote Academic Workforce and Entrepreneurs of Science, Technology and Innovation (STI)**



The Center for International Affairs (CIA), Walailak University organized a collaborative discussion forum between the Cambodia-GIZ team and the School of Allied Health Science to promote health professional education.

Walailak University, signed a Memorandum of Understanding (MOU) with 17 agencies namely Thailand Institute of Scientific and Technological Research (TISTR), National Research Office (NRCT), 9 Rajamangala University of Technology, Kasetsart University, Maejo University, National Science and Technology Development Agency (NSTDA), Phawanaphokhun Vocational College, Walailak University, Surat Thani Rajabhat University and Prince of Songkla University.

Mr. Votanak Soksereivotanak, Lecturer at the University of Puthisastra (UP), Cambodia is currently starting work with Deutsche Gesellschaft für Internationale Zusammenarbeit or GIZ, a German organization, proposed to select Walailak University – the School of Allied Health Science to be a future training program in health science to students and staff from Cambodia.

The MOU aims to forge collaboration in comprehensive research and development by taking advantage of shared resource utilization and enhancing skills of entrepreneurs in Science, Technology and Innovation (SIT). The collaboration also focuses on enrichment of the academic workforce in 18 agencies to achieve the optimal benefit, share resources, knowledge, and plan tractable research application.

The discussion aims to explore Walailak University in terms of facilities, medical education, medical technology, hospital, teaching and learning process, and other facilities in preparation for the training program under the GIZ fund. This collaboration also contributes to SDG 3: Good Health





# Walailak University

## SDG Report 2022 - 2023



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<b>Contributors:</b>	<p>The Center for Academic Services          The Center for Cultural and Sports Promotion          The Center for International Affairs          The Center for Educational Services          The Center for Library Resources and Educational Media          The Center for Smart Farm          The Center for Scientific and Technological Equipment          The Center of Property Management          Science and Technology Park          Botanic Park</p>	<p>Walailak University Hospital          The Division of Legal Affairs          The Division of Corporate Communication          The Division of Architecture and Environment          The Division of Human Resources and Organization          The Division of Student Support and Development          The Division of Central Service</p> <p>The Division of Landscaping and Building          The Division of Planning and Strategy          All Teaching Schools within Walailak University</p>
<b>Layout and Design:</b>	<p>Mr. Jadsda Pongpaw          Ms. Supanida Duangchinda          Ms. Kotchakorn Duangchinda</p>	
<b>English Proofreaders:</b>	<p>Dr. Kamontip Klaibanmai          Ms. Thassanee Thasrabiab</p>	<p>Asst. Prof. Dr. Wararat Whanchit          Ms. Kanyanat Sakkanayok</p>
<b>Translation and Editing :</b>	<p>Mr. Yari Nukul          Mr. Kittipong Bunlear          Mr. Supadit Chorchan</p>	
<b>SDG office:</b>	<p>The Center for Academic Services          Walailak University 222 Thaiburi, Thasala District, Nakhon Si Thammarat 80160 Thailand</p>	





# WALAILAK UNIVERSITY

## SUSTAINABLE DEVELOPMENT GOALS

2022 - 2023

WALAILAK UNIVERSITY 222 THAIBURI, THASALA DISTRICT  
NAKHON SI THAMMARAT 80161 THAILAND TEL. +66-7567-3000,  
+66-7538-4000 FAX. +667567-3708 EMAIL. wu@wu.ac.th