

SDG REPORT

WALAILAK UNIVERSITY 2022 – 2023



CLIMATE ACTION

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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.

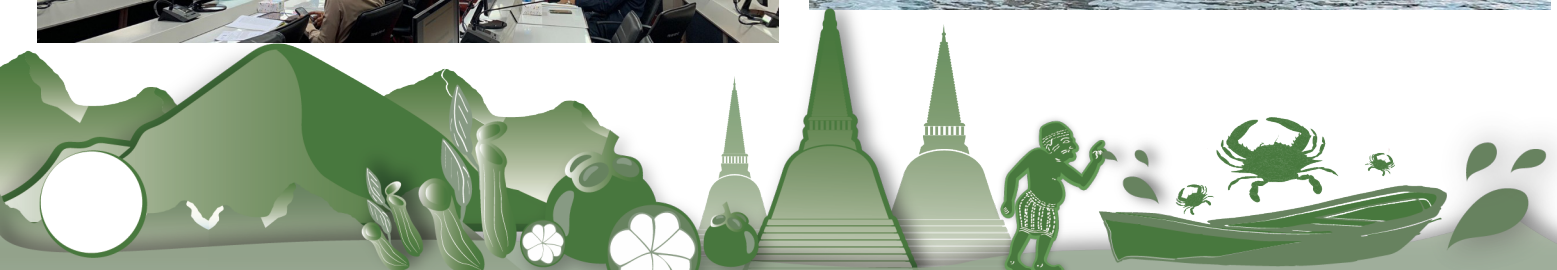


WU's Collaboration on Climate Change Adaptation with Government Sectors, Private Sectors and NGOs

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.



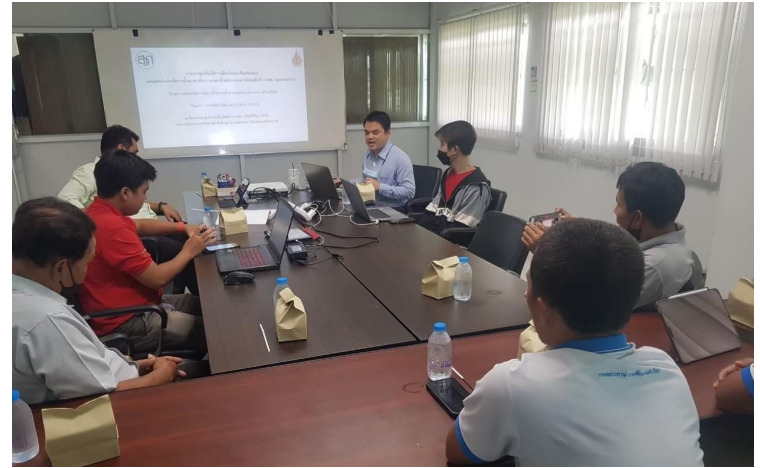
A research team at WU has collaborated with both public sectors private sectors and NGOs to drive the research on **“Developing Carbon-Neutral Tourism in Krabi Province and Connected Areas”**. It aims to study and evaluate the carbon footprint of tourism, to analyze the Thai and foreign markets for product 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.

