



WATER MANAGEMENT PILOT PROJECT: IMPROVED MANAGEMENT OF EXTREME EVENTS THROUGH ECOSYSTEM- BASED ADAPTATION IN WATERSHEDS (ECOSWAT)

As of: October 2021

With Thailand facing the threat of more frequent floods and droughts in its water catchment areas as a result of climate change, the project worked to prevent an increase in damages caused by these events. To this end it implemented ecosystem-based adaptation (EbA) measures together with its local partners. EbA approaches were being piloted in the Chi and Tha Di catchment areas and the experiences gained informed national processes such as the national adaptation strategy, as well as international debate on the issue. The project made use of existing networks in the partner country and further developed them with the aim of improving cooperation between the authorities responsible for adaptation to climate change and the authorities operating in the water sector.

State of implementation/results

- Project completed
- Stakeholder platforms have been established in the pilot areas.
- A comprehensive baseline study that analyses existing adaptation policy and entry points for ecosystem based adaptation has been finalised.
- "1st Drone Pioneer Award" won in 2017, deployment of drones served to better plan actions and train partners - A successful study tour to Germany for the Thai partners was conducted in May 2014. An additional one, financed by the Government of Thailand and organized by the project, was conducted in June 2017. - Together with Walailak University and through the introduction of drone technology and use of remote sensing data in June 2016, a digitalization and innovation initiative started. Data from drone flights were used for vulnerability assessment and action planning. In addition, aerial footage was used to visualize the complex interplay between water, land, land use,

PROJECT DATA

Country/Countries:

Thailand

Implementing organisation:

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Political partner(s):

- Ministry of Natural Resources and Environment (MoNRE) - Thailand

Implementing partner(s):

- Department of Water Resources (DWR), Ministry of Natural Resources and Environment (MoNRE) - Thailand
- Khon Kaen University - Thailand
- Royal Irrigation Department - Thailand
- Walailak University

BMU grant:

€ 3,348,000

Duration:

06/2013 till 12/2017





agriculture, infrastructure and the impacts on ecosystem services. - Based on the project experiences, Walailak University integrated the topic of digitalization and drone technology into the curriculum of its Bachelor of Science Program in Environmental Science and Technology in 2017 and offers a course on "Remote Sensing and Environment Database - ESI-231"

