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Transfer of Knowledge and Technology from the Flood Simulation System for the People of Tha Wang Pha District, Nan Province



13-16 May 2024

Postillion WTC Rotterdam, The Netherlands

Defense & Intelligence Summit

15-16 May 2024

Enabling a Robust GeoIntelligence Infrastructure for Growth and Security

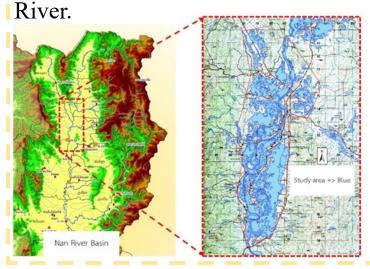
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Recurring problems, effected people and GeoIntelligence for situational awareness

Tha Wang Pha District, Nan

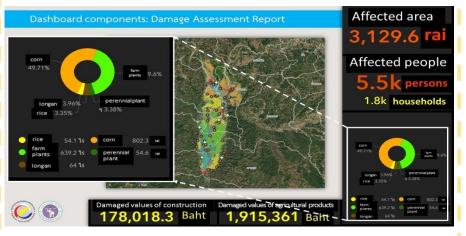
Province, is a basin with recurring flood problems in the north of Nan Province where Nan River flows downwards and into the Chao Phraya



Tha Wang Pha District frequently suffers recurring floods affecting 50,519 people,



Transfer of Knowledge and
Technology from the Flood Simulation
System for the People of Tha Wang Pha
District, Nan Province



The Flood Simulation System is a combination of geospatial data, real-time analytics, and advanced mapping to provide a precise and comprehensive understanding of flooding situations



Combining geospatial data, real-time analytics(?), and advanced mapping system for a precise and comprehensive understanding of emergency situations





Reconnaissance

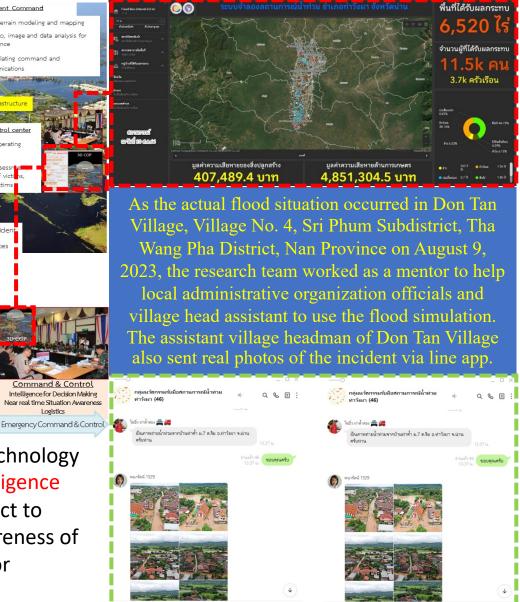
Harnessing GeoIntelligence for Swift and Informed Emergency Response



Data communication and analysis

The transfer of knowledge and technology is to provide a source of GeoIntelligence for people of Tha Wang Pha District to have the Swift and Informed awareness of flooding situations and prepare for Emergency Response.

Reconnaissance





GeoIntelligence provide a precise and comprehensive understanding of emergency situations







Department of Disaster Prevention and

- ns#wrf 0-2637-3000











The flood simulation system

Research team

- 1. Transferring knowledge in field survey, UAV terrain modeling, geospatial database creation, and damage assessment from flood situations and creating a dashboard
- Workshop to add values to the flood simulation system with the head of government agencies in Tha Wang Pha District



36 head of government agencies attended the knowledge sharing and technology transfer on 1 February 2024

on 14 July 2023

User acceptance

Banner on DDPM web site linking to the flood simulation system

80 Chiang Klang Branch officers and village heads and leaders from 7 local sub-district administrative organizations on 14 June 2023

use the system in flood situation 10 teachers and 50 students attended preparedness the knowledge sharing and technology transfer

> 1. Able to build confidence and cooperation in managing the situation.

80 percent or more of 80 participants being able to acquire the knowledge

> and to use the system in flood situation preparedness

100 percent of 50 participants being able to acquire the knowledge and to

- 2. Able to communicate and coordinate between agencies in managing situations.
 - 3. Able to manage water in an area, to reduce the impact of floods o r droughts in an efficient way.
- 4. Able to simulate many situations related to flooding and different disaster situations.



This video clip is to instruct users how to use the flood simulation system

of Tha Wang Pha district, Nan province

by inputting a water level at the station N 64.





granted and supported by







QR code to the flood simulation system

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