Vietnam Flood Modeling and Early Warning Capacity Development – Phase II

Flood model results displayed in the VinAWARE early warning and decision support application developed for Vietnam by PDC. The system is based on PDC's flagship technology, DisasterAWARE.

GVN Counterparts
Ministry of Agriculture and Rural Development (MARD)

Duration
August 2012 – July 2015

Planned Budget:
$1,222,050

Prime Implementer:
Pacific Disaster Center

For more information:

USAID
15/F, Tung Shing Square
2 Ngo Quyen Street
Hanoi, Vietnam
Tel: 84-4-3935-1260
www.usaid.gov/vietnam

The Vietnam Flood Modeling and Early Warning Capacity Development - Phase II (FEW2) Project, implemented by the Pacific Disaster Center (PDC) with support from USAID's Office of U.S. Foreign Disaster Assistance, builds on earlier activities to develop and implement the initial VinAWARE early warning and decision support system for central-level officials in Hanoi and flood management offices at provincial level in central Vietnam. With VinAWARE, Vietnamese disaster managers are able to monitor storm and flood hazards, provide timely alerts, and share situational awareness products and damage assessments with relevant response agencies.

The current FEW2 activity carries that effort forward by providing the national Disaster Management Center and provincial flood management offices with improved real-time hydrometeorological data and supporting geographic information and flood maps within VinAWARE. Improved operational capability with better information is made possible by the promotion and execution of data-sharing agreements among key stakeholders in Vietnam.

Training, workshops, and other efforts involved in developing staff capacity to operate and maintain the early warning and decision support system are extensive, and such activities continue as the PDC and its Government of Vietnam partners reach out to an ever-wider audience of those with flood-and-storm disaster management responsibilities across ten provinces. The project also procures and installs computer hardware and assistance with necessary software licenses and application customization.

With the increase in stakeholder buy-in, the project has been able to incorporate more data, including the results of dam failure modeling into VinAWARE, and is working to secure additional vital data such as automated water-level monitoring of major reservoirs, as well as to engage non-governmental partners like the Red Cross and local offices of UN agencies.

RESULTS
Flood and storm monitoring—previously dependent in many areas on visual monitoring, phone calls, and faxed reports—has now become a reliable and timely reporting process. Using VinAWARE, decisions across the entire cycle of disaster management are now based on near real-time data, visualized and presented in an easy-to-access, understandable, and completely sharable form that includes exposed population and assets, risk information, and much more. In this environment, early warnings can and will save lives, livelihoods, and precious economic resources.