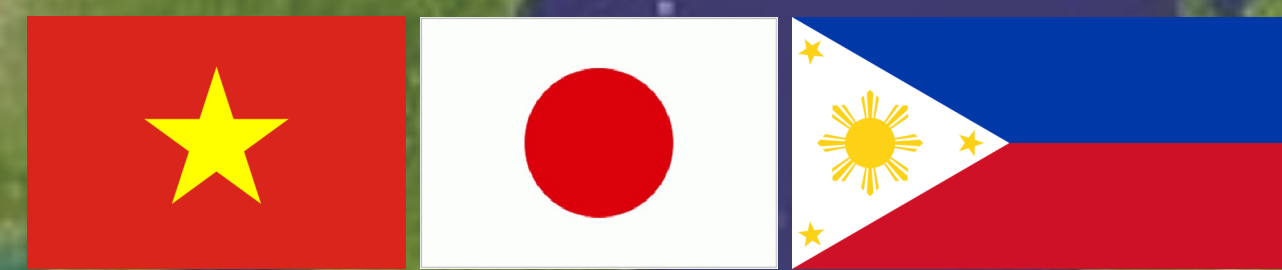


# INTERNATIONAL CONFERENCE VIETNAM - JAPAN - PHILIPPINES APN FUNDED PROJECT



## STUDY ON VECTOR-BORN DISEASES IN THE CONTEXT OF CLIMATE CHANGE USING GEOSPATIAL DATA AND MODELLING FOR PHILIPPINES AND VIETNAM

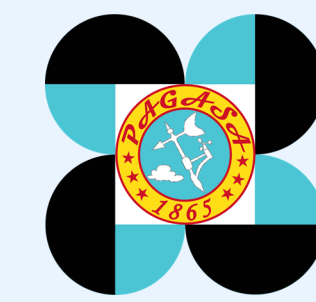
November 24, 2017  
UST, Manila, Philippines



ASIA-PACIFIC NETWORK FOR  
GLOBAL CHANGE RESEARCH



Pontifical and Royal  
**UNIVERSITY OF SANTO TOMAS**  
THE CATHOLIC UNIVERSITY OF THE PHILIPPINES



### Utilizing geospatial technology to assess health vulnerability to climate change for rural population in Vietnam and Philippines

A project sponsored by APN (Code: CAF2015-RR16-NMY-Pham)

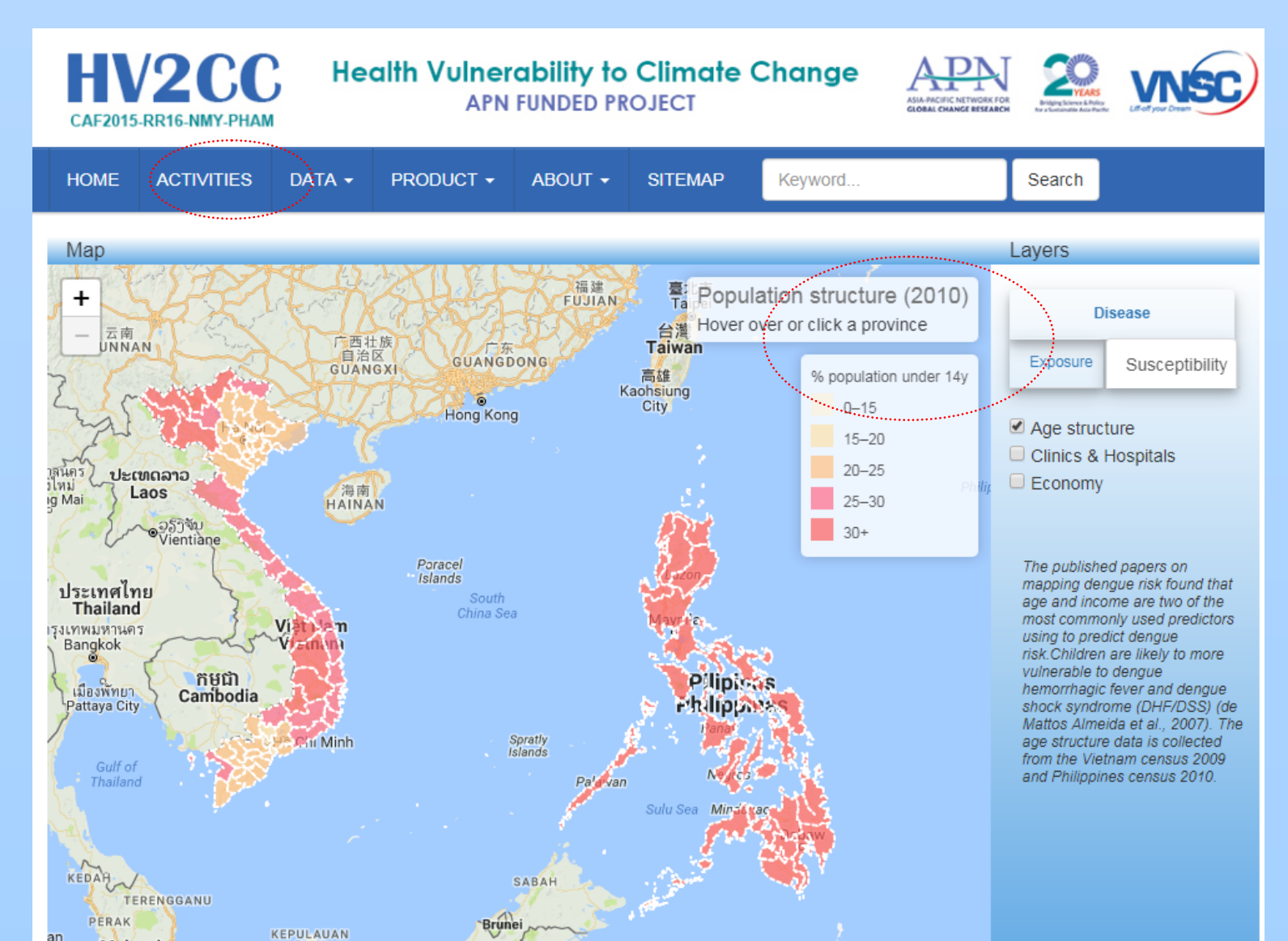
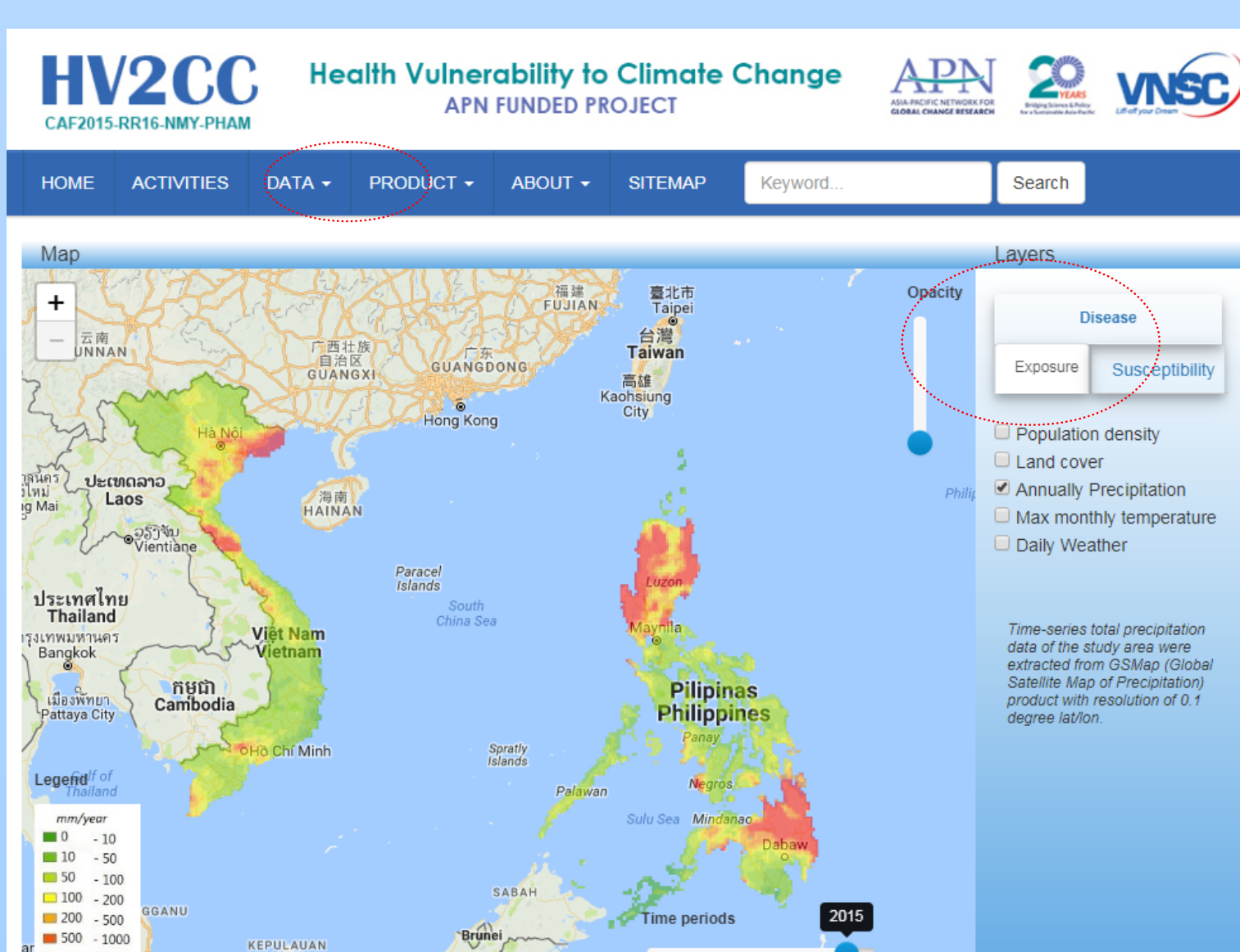
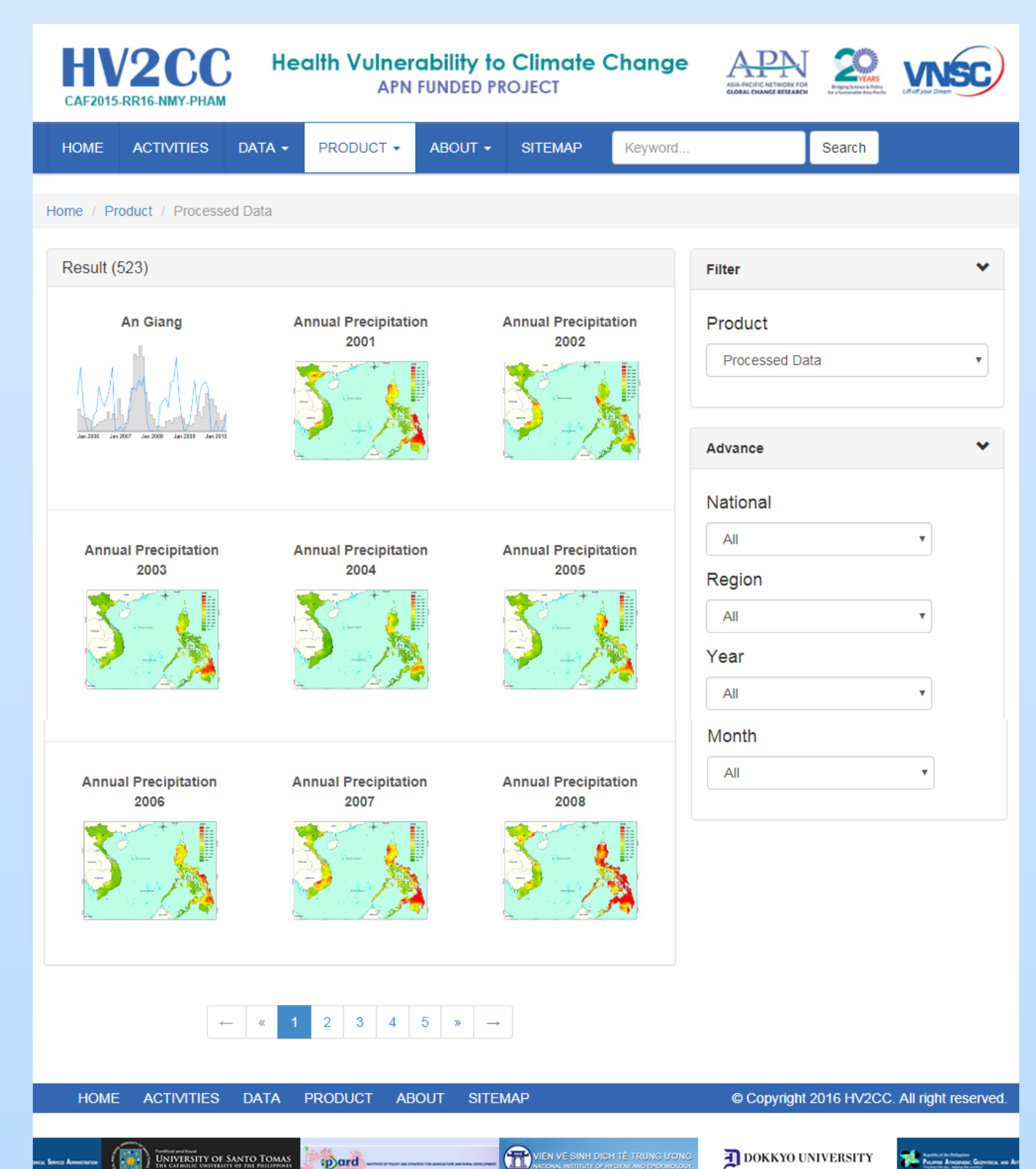
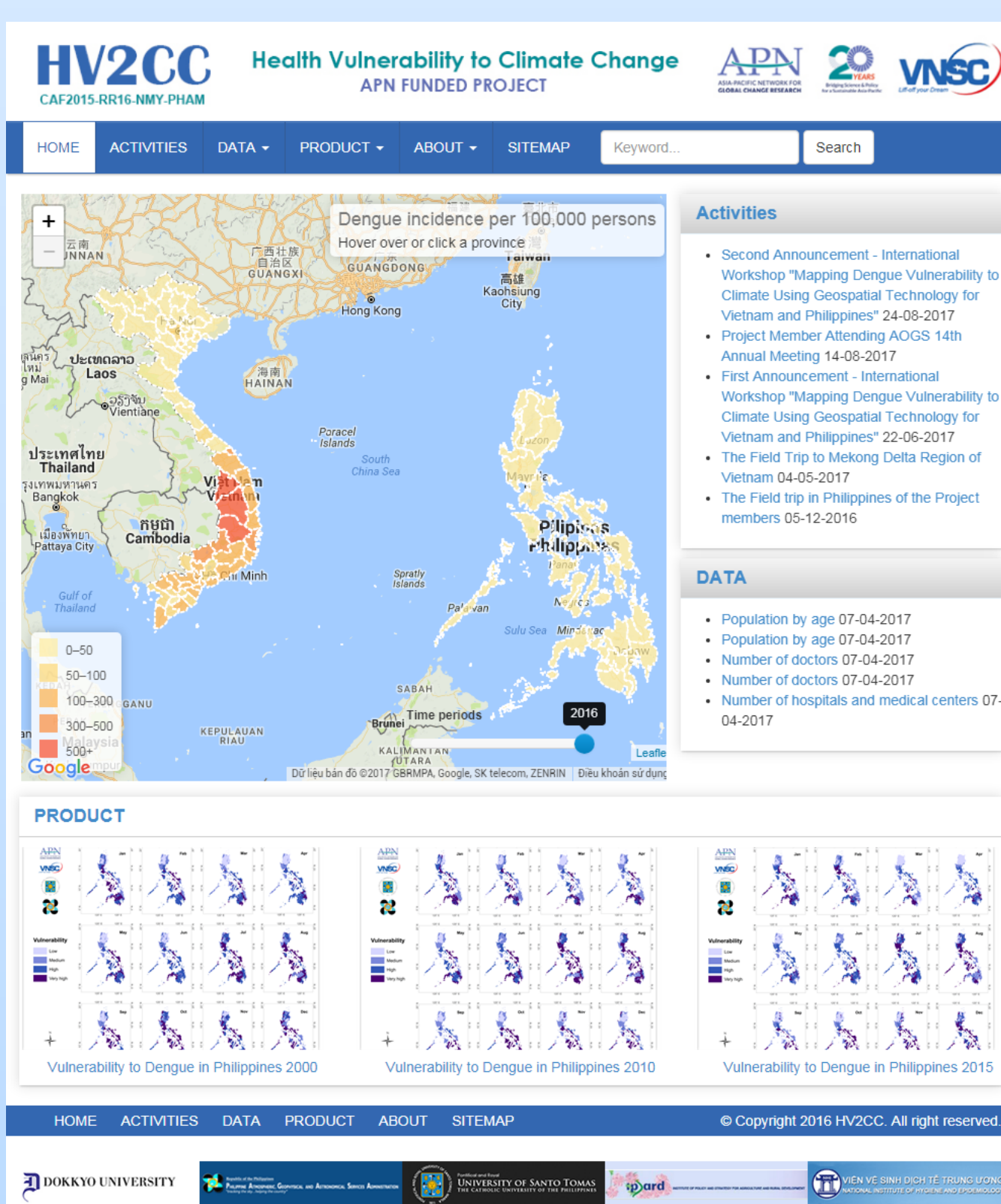
Implement Time: 2015-2017

**Objectives:** Dengue and malaria are considered the most health burden under changing climate in Vietnam and Philippines, where impacts of climate change appear severely due to more frequent flooding and typhoons. The objective of the project is to improve the knowledge of the above vector-borne diseases and their vulnerability to climate variability for rural population in both countries by using advanced geospatial technology.

**Activities:** Develop a geospatial database on the above-mentioned diseases including temperature, precipitation, land cover, socio-economic conditions etc. for the most disease exposure regions in two countries; identify trends in epidemiological patterns; identify vulnerable locations and risk factors, and mapping health vulnerability to malaria and dengue. This activity matches with APN's Focus Activities of developing high-resolution earth observational datasets that can contribute to filling data gaps as well as sharing of public health-oriented data.

**Outputs and outcomes:** Build science - based knowledge for adaption planning and decision making in health sector via informing risk and vulnerability. This contributes to APN's high priority activities in development and utilization of vulnerability and risk assessments, and utilization of available information including climate data in applications for adaptation. The project results will support adaption planning and decision making in health sector via providing disease information and vulnerability.

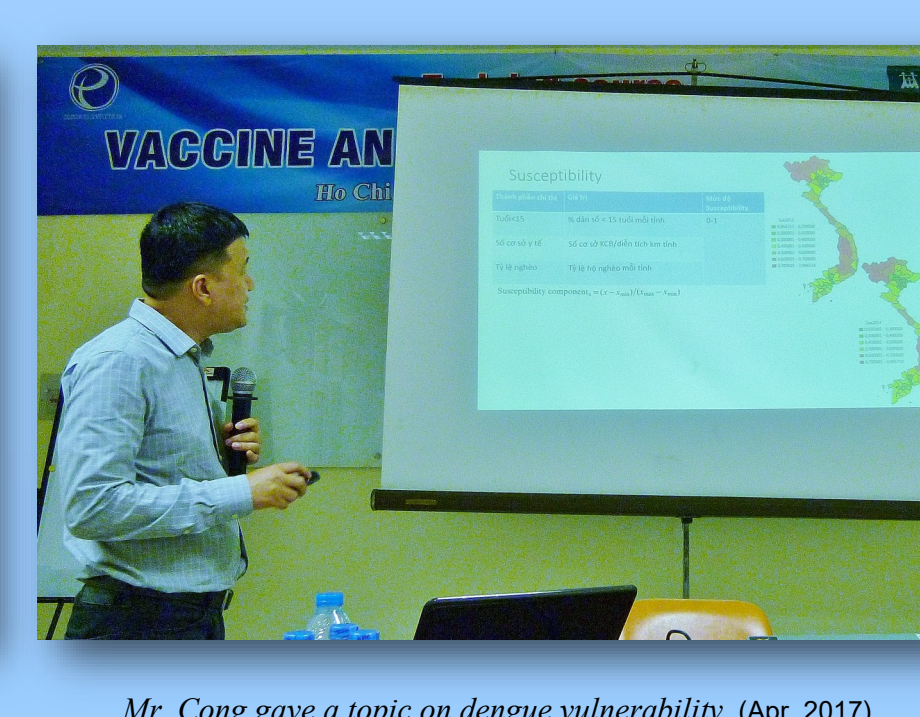
Website: <http://apn-climateandhealth.com>



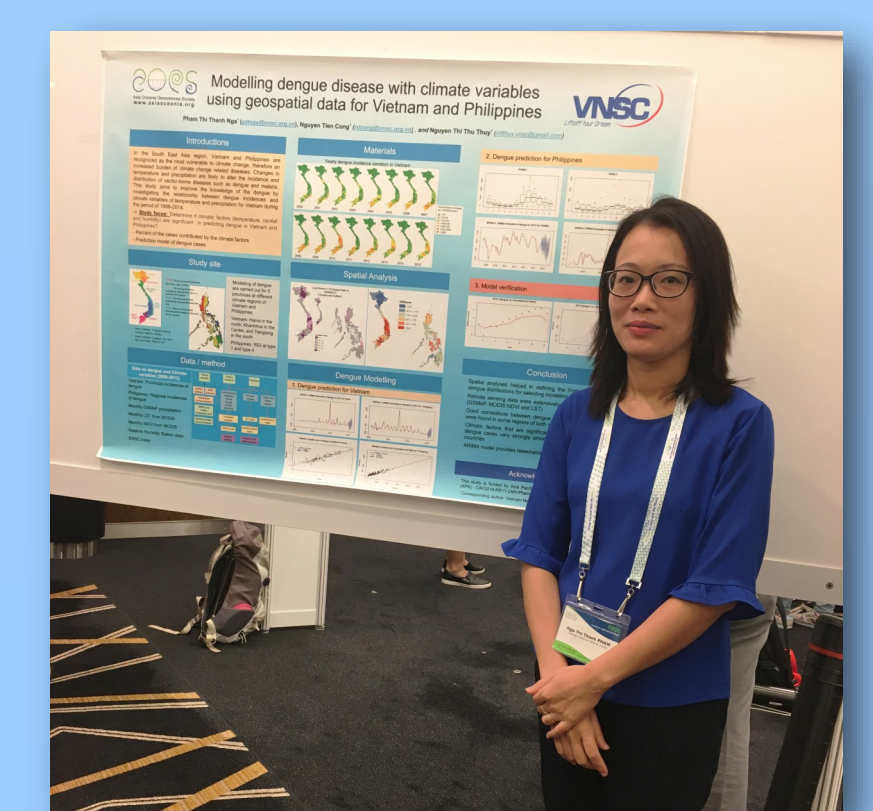
Dr. Niga (left) presented a modelling of dengue cases in relation to climate variables and Dr. Duc (right) shared experiences in prevention of dengue and Zika virus at Faculty of Medicine, (Nov. 2016)



Dr. Niga presented "The modelling of Dengue for Mekong Delta region" (Apr. 2017)



Mr. Cong gave a topic on dengue vulnerability (Apr. 2017)



Dr. Pham Thu Thanh Nga presented the poster at the AOGS 14th Annual Meeting (Aug. 2017)