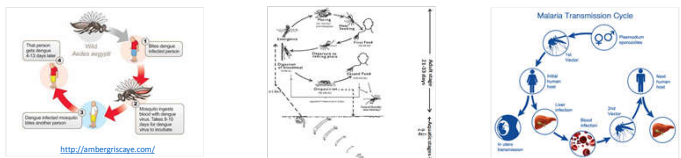


Mapping health vulnerability to climate change for rural population in Vietnam and Philippines using geospatial technology

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Disease transmission mechanism



Environment conditions and Climate change impacts

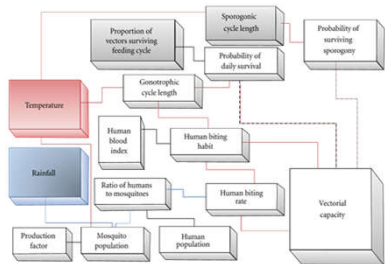
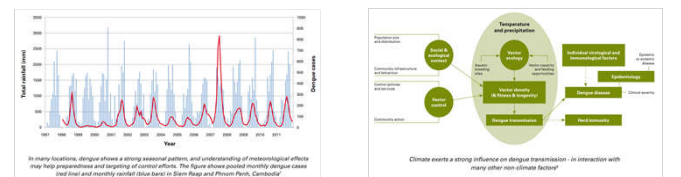
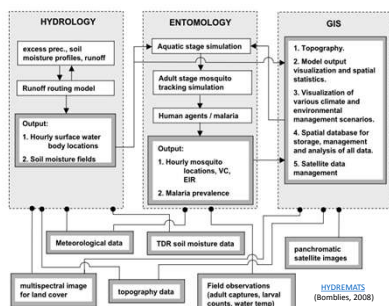
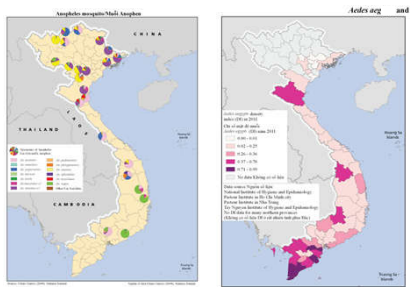


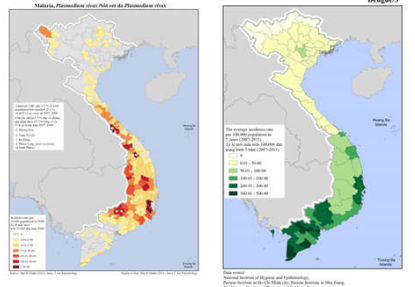
FIGURE 1. Diagrammatic representation of "expanded" vectorial capacity (VCAP) Model. Cecato, 2012. A Vectorial Capacity Product to Monitor Changing Malaria Transmission Potential in Epidemic Regions of Africa



Mosquito distribution



Disease case distribution



Geospatial technology

Remote sensing data:
- Temperature
- Rainfall
- Landuse/Land cover

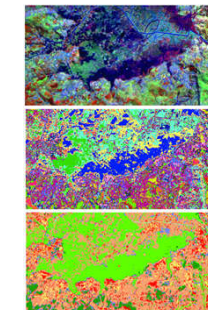
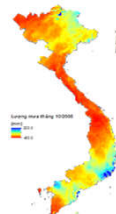
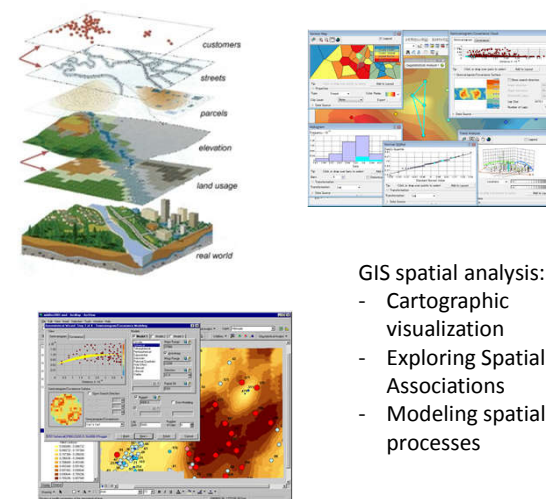
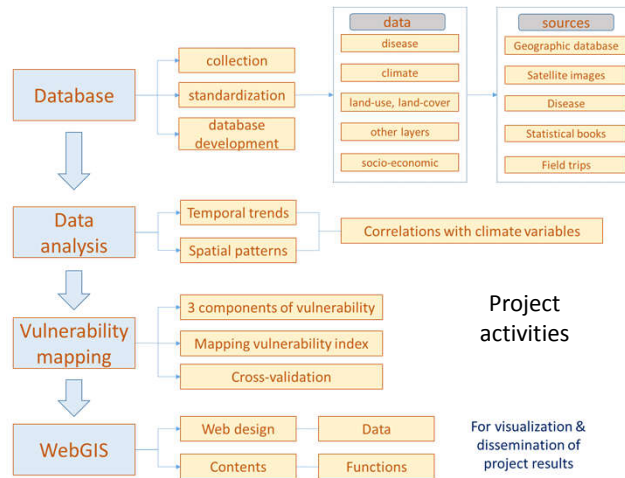


Fig. 2. SPOT XI + P for prevention of malaria risk in the high-lands of Madagascar. Legend: SIGREP: Spot 4 Xi: 168-369 27/04/2000 1. Color composite RGB 342 2. Classification of 22 classes (maximum likelihood) 3. 7 class groups with all types of rice field in bright green Cecato, 2005. Application of GIS and RS for assessing and monitoring malaria risk



GIS spatial analysis:
- Cartographic visualization
- Exploring Spatial Associations
- Modeling spatial processes

Project information



- Title: Utilizing Geospatial Technology to Assess Health Vulnerability to Climate Change for Rural Population in Viet Nam and the Philippines
- Reference No.: CAF2015-RR16-NMY-Pham
- Duration: 8/2015-7/2017
- Project leader: Dr. Pham Thi Thanh Nga
- Org.: Vietnam National Satellite Center
- Partners: Vietnam Institute of Hygiene and Epidemiology (NIHE), Institute of Policy and Strategy for Agriculture and Rural Development (IPSARD), Vietnam; University of Santo Tomas, Philippines, Philippine Atmospheric Geophysical and Astronomical Services Administration
- Funding organization: Asia-Pacific Network for Global Change Research (APN)

Project activities

For visualization & dissemination of project results