











Presentation of Ecomore II project in Cambodia

Sébastien Boyer

Steering committee 23 March 2018 Phnom Penh, Cambodia













Do Vector control in school lead to a community decrease of DENV transmission?













Epidemiological approach: cluster randomized trials

Do Vector control in school lead to a community decrease of DENV transmission?













Do Vector control in school lead to a community decrease of DENV transmission?

Active detection of dengue-like syndromes in Community













Virological characterization of circulating DENV

Do Vector control in school lead to a community decrease of DENV transmission?

Active detection of dengue-like syndromes in Community













Virological characterization of circulating DENV

Do Vector control in school lead to a community decrease of DENV transmission?

Active detection of dengue-like syndromes in Community

Serological monitoring for dengue with salivary test in school













Development and Evaluation of integrated vector method control management in schools

Virological characterization of circulating DENV

Do Vector control in school lead to a community decrease of DENV transmission?

Active detection of dengue-like syndromes in Community

Serological monitoring for dengue with salivary test in school





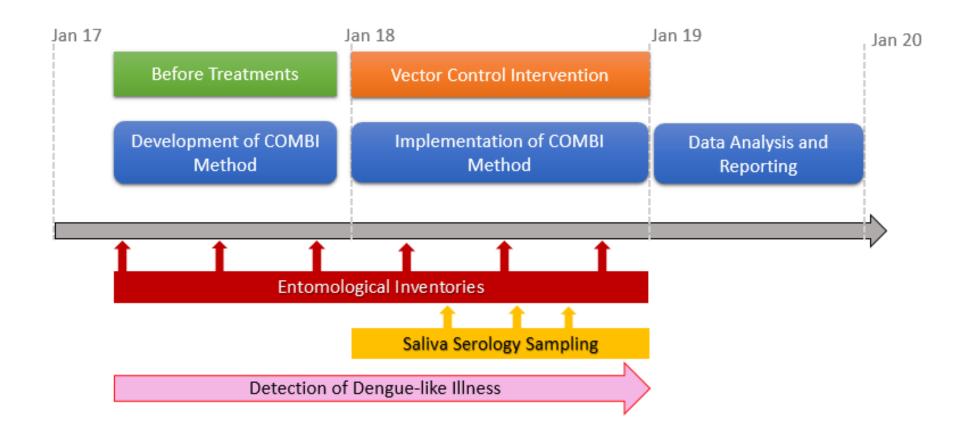








Project Timeline













Development and Evaluation of integrated vector method control management in schools

Virological characterization of circulating DENV

Do Vector control in school lead to a community decrease of DENV transmission?

Active detection of dengue-like syndromes in Community

Serological monitoring for dengue with salivary test in school













Development and Evaluation of integrated vector method control management (IVM) in schools

MAIN QUESTION

Do the IVM decrease the population of Aedes aegypti?

RELATED QUESTIONS

- Is the density of Aedes aegypti the same in the 2 clusters before treatment?
- What is the mosquito composition species?
- What are the breeding sites in/around schools?
- Are Aedes aegypti resistant to insecticides?





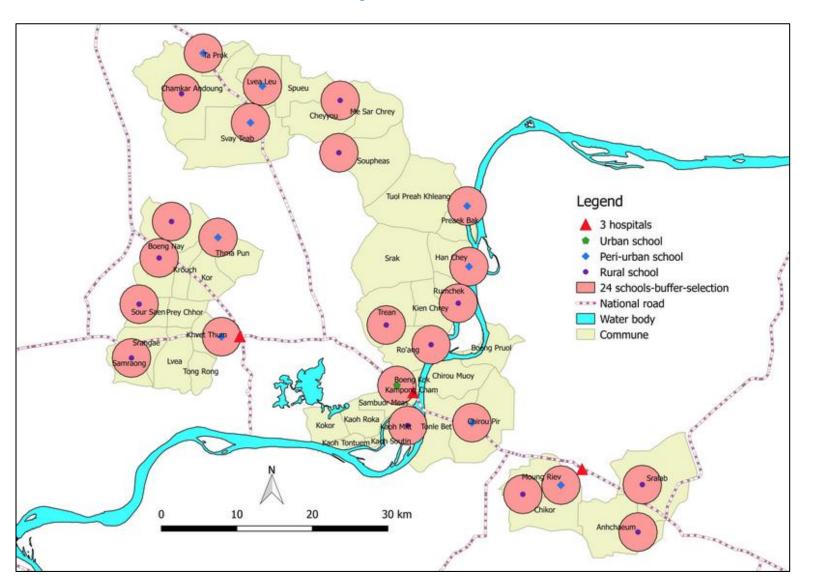








Randomly selected 24 clusters in 5 districts



One cluster: one school and several villages surrounding and depending on that school.



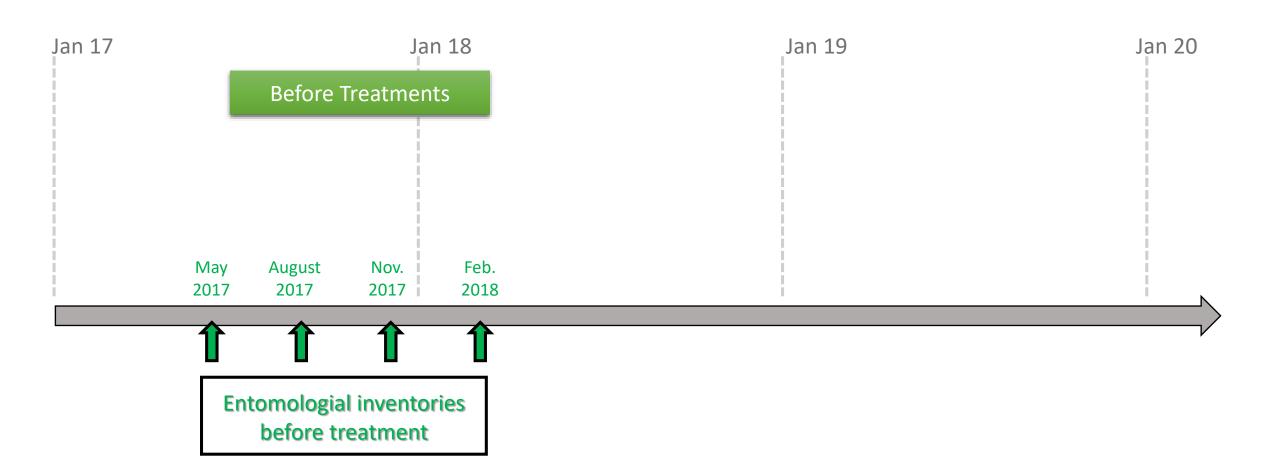


























BG-sentinel trap with lure



CDC light trap





































Discussion with children and answer their questions



















Installation of traps (CDC Light Traps and BG sentinel for 24 hours)















- Collection of mosquitoes from all traps
- Identification of mosquito species by using Thailand and Vietnam keys
- Sample storage: store at -20°C



ILLUSTRATED KEYS TO THE MOSQUITOES OF THAILAND I. BACKGROUND, GEOGRAPHIC DISTRIBUTION, LISTS OF GENERA, SUBGENERA, AND SPECIES, AND A KEY TO THE GENERA

Rampa Rattanarithikul, Bruce A Harrison, Prachong Panthusiri and Russell F Coleman

> ILLUSTRATIONS by Prachong Panthusiri

- Department of Entomology, US Army Medical Component, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,
 Public Health Pest Management, North Carolina Department of Environment and Natural Resource, Winston-Salem, North Carolina 27107. USA.
- 3. Department of Entomology, Walter Read Army Institute of Research,

ILLUSTRATED KEY TO MOSQUITOES OF VIETNAM

Chester J. Stojanovich And Harold George Scott

25 JANUARY 1966

J.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE Communicable Disease Center Atlanta, Georgia 30333



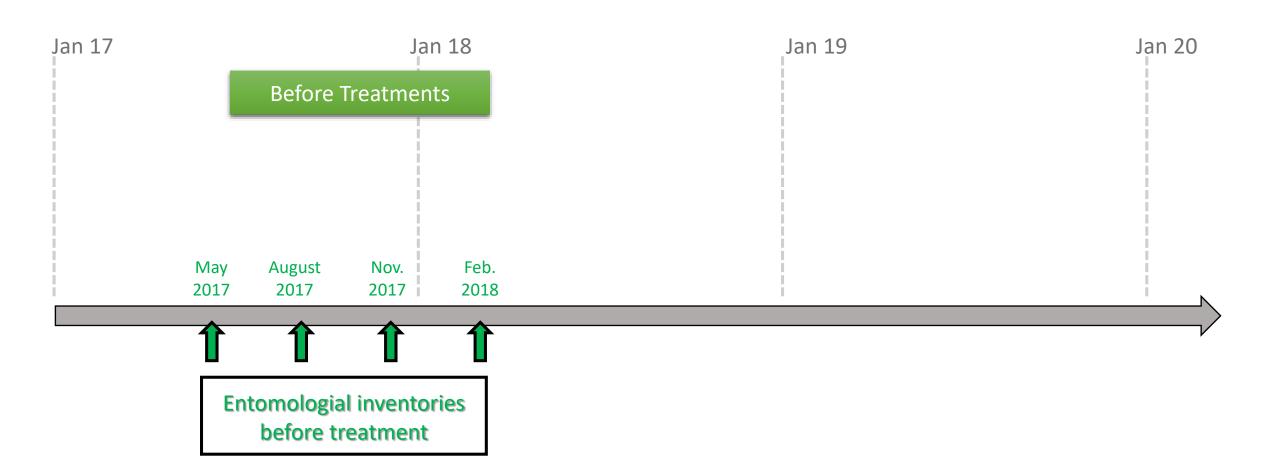














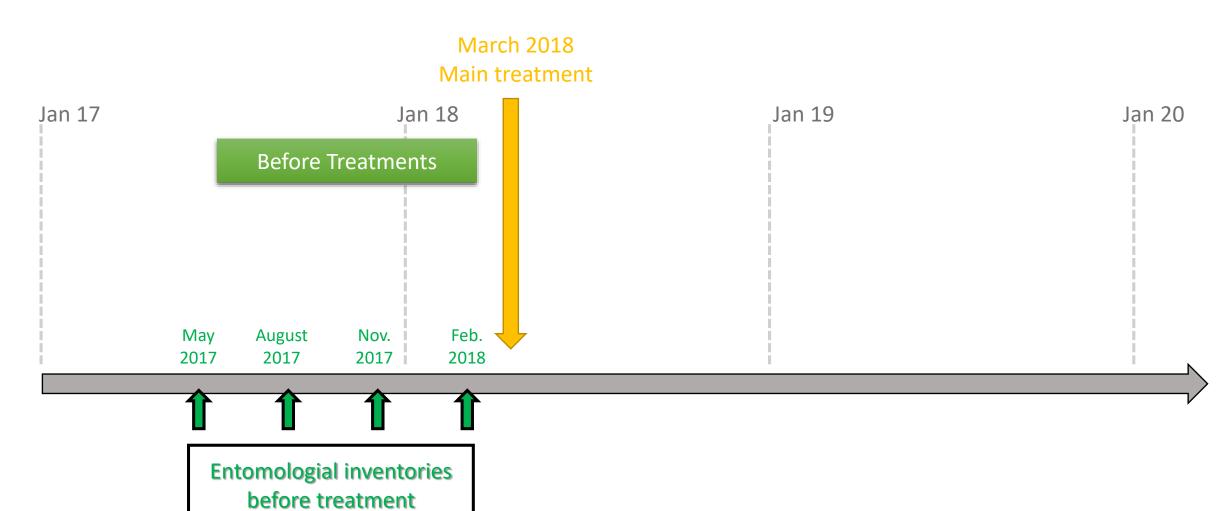
























Integrated Vector Management

- Use of a larvicide: Bacillus thuringiensis var. israelensis
 (Bti) in big containers
- Physical destruction of breeding sites
- Use of dessimination insecticide: Pyriproxyfen in2Care
- COMBI = Communication for Behaviour Impact with children



Bti



Pyriproxyfen in2care



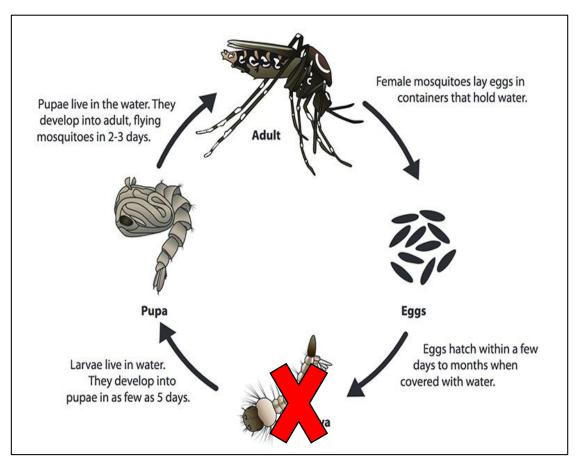


























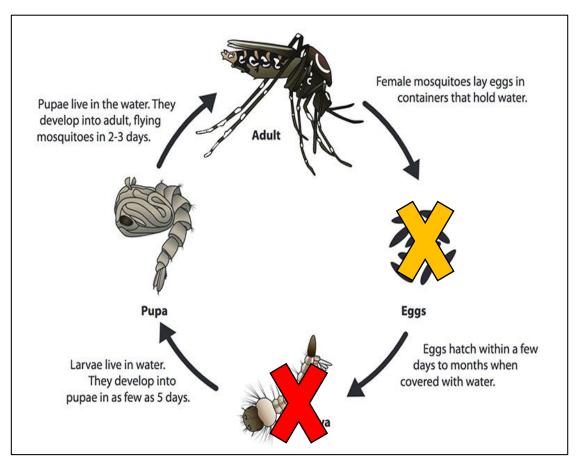




























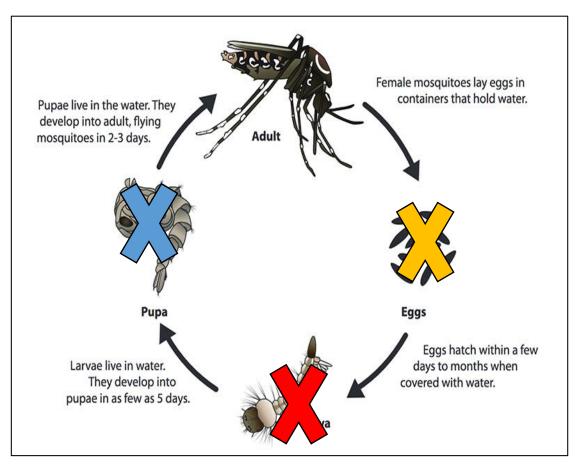




























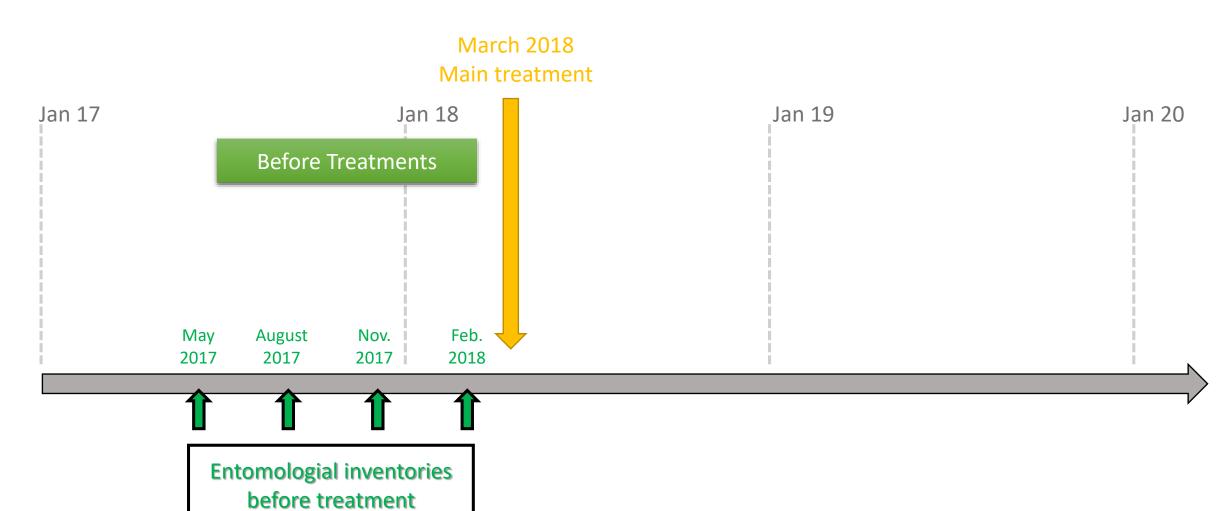














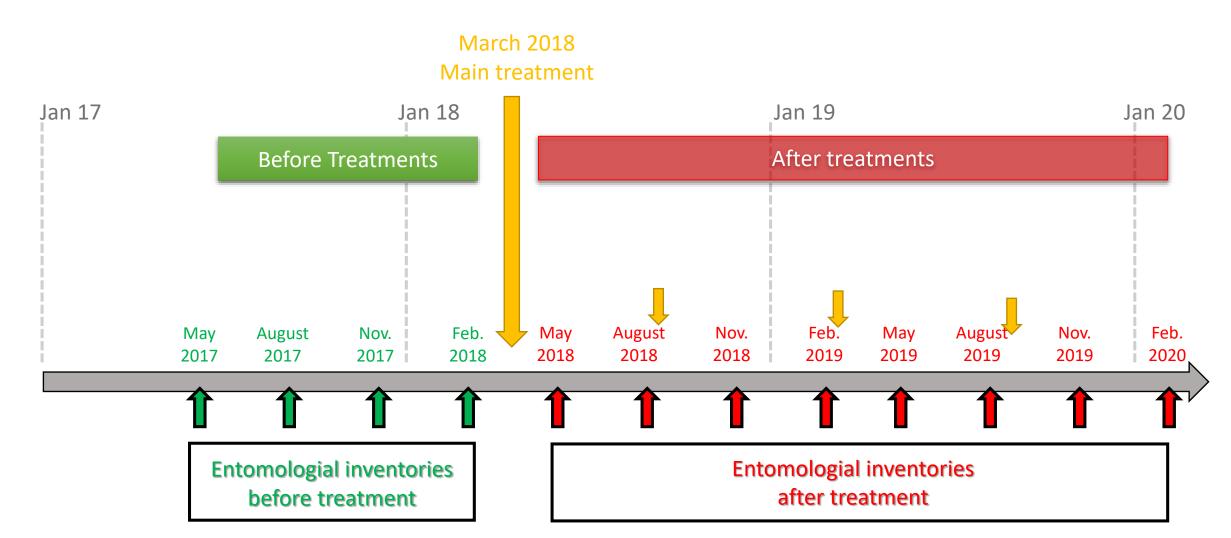














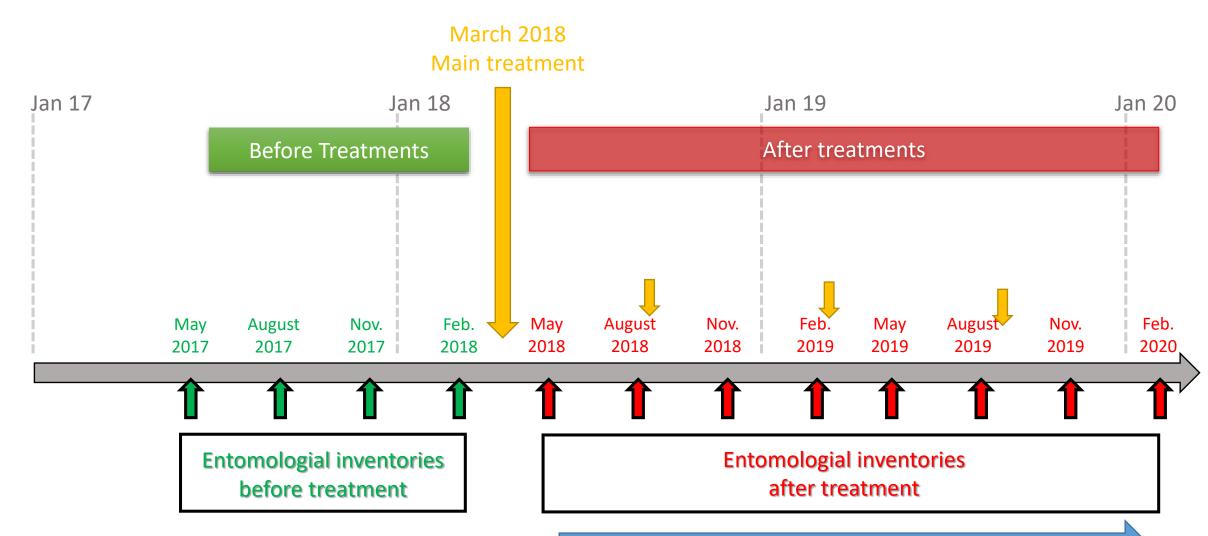












COMBI = **Com**munication for **B**ehavioural **I**mpact