



# APMEN

asia pacific malaria elimination network



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## ELIMINATION 2030

Working Together for a Malaria-free Asia Pacific

# Vector Control Working Group Update

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## APMEN VECTOR CONTROL WORKING GROUP WORK PLAN

1	Technical and coordination support for APMEN Vector Control Working Group	
2	APMEN Vector Control Programme Assistant	
3	Vector Control WG Annual Meeting	Once a year
4	APMEN AGM	Once a year
5	APMEN Fellowship	Two per year
6	Capacity building training	Two per year
7	Clearing house for Entomology and Vector Control Technical Assistance and regional resources	On going
8	Plan to stimulate vector ecology research and vector control tool development especially on outdoor and residual transmission	On going
9	Improve linkages with VXWG and SRWG	On going

# APMEN VCWG funding

Generous support from Sumitomo Chemical Co. and the Bill & Melinda Gates Foundation through University of California, San Francisco, to support core APMEN VCWG components:

- VCWG Technical and Program Coordinators (Malaria Consortium)
- VCWG Administration (Mahidol University)
- Annual VCWG meetings
- Trainings and fellowships on vector control and entomology
  - IVM
  - Malaria vector surveillance methods
  - GIS for entomological surveillance and mapping receptivity
  - *P. knowlesi* transmission
- APMEN VCWG Resource Exchange



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# VCWG MEETING

- 1<sup>st</sup> Vector Control WG Meeting: 12 – 14 July 2017, Sukosol Hotel, Bangkok, Thailand.



- 2<sup>nd</sup> Vector Control WG Meeting: 03 -05 September 2018, Century Park Hotel, Bangkok, Thailand



# Summary of 2<sup>nd</sup> VCWG Meeting

- ~ 90 people; NMCP, APMEN and APLMA Secretariats, WHO, industry partners, NGOs, and academia
- presentations, discussions, and group work on:
  - Global and regional WHO updates on elimination, vector control, and entomological surveillance guidance
  - Regional and sub-regional solutions to the challenges of entomological capacity building, including south-south collaboration
  - Practical approaches to entomological surveillance for evidence-based vector control
  - Exchange of evidence and best practices on estimating the relative contribution of outdoor malaria transmission, the implications of outdoor transmission on malaria elimination efforts, and new vector surveillance and control tools for measuring and controlling outdoor transmission
  - Pre-qualification of, and access to, new vector control technologies
  - Development of a new APMEN VCWG online Resource Centre
  - VCWG workplan, governance, and funding

# APMEN AGM

- APMEN AGM and Malaria Week (APLMA,WHO & others): 4–8 Dec, 2017, Kempinski Hotel, Naypyidaw, Myanmar.



- APMEN AGM & APLMA SOM: April 2019 (Bangkok, Thailand)

# APMEN FELLOWSHIP

(2 Fellowship per year)



5 countries applied: 4 + 1

- 4 on GIS (Bhutan, Malaysia, Sri Lanka & Thailand) - joint training at Mahidol University.
- 1 Malaysian
- “Evaluation of effective sampling methods for *P. knowlesi* vectors, and understanding the bionomics and ecology of *Pk* vectors.” July-September 2018, hosted by University of Malaya, Kuala Lumpur, Malaysia

# CAPACITY BUILDING

Training	Description	Outcome
<p>1. Risk and receptivity mapping using GIS technology</p> <ul style="list-style-type: none"><li>▪ Mahidol University (August 2018).</li><li>▪</li></ul>	<ul style="list-style-type: none"><li>▪ 9 participants (Malaysia, Sri Lanka, Bhutan, Thailand)</li><li>▪ 3 weeks course focused on fundamentals of statistics, epidemiology, informatics, remote sensing, and spatial analysis.</li><li>▪ lecture, practical and group work</li></ul>	<ul style="list-style-type: none"><li>▪ skills advancement in designing tailored data collection tools (including smartphone apps)</li><li>▪ database management, disease mapping using a freely available GIS software package (Quantum GIS)</li><li>▪ communication/ presentation skills.</li></ul>



# CAPACITY BUILDING

Training	Description	Outcome
<p>2. Outdoor entomological surveillance tools</p> <ul style="list-style-type: none"><li>▪ partnership with Kasetsart University</li><li>▪ 7-10 September 2018</li><li>▪ co-funded with APLMA.</li></ul>	<ul style="list-style-type: none"><li>▪ 6 participants (Cambodia, Vietnam, Thailand, Malaysia, Sri Lanka)</li><li>▪ field-based practical training on three new tools for outdoor surveillance: the barrier trap, human decoy trap, and the Ifakara tent trap.</li></ul>	<ul style="list-style-type: none"><li>▪ kick-started the proof-of-concept studies of these new tools in four countries (Malaysia, Thailand, Sri Lanka and Vietnam)</li></ul>

# CAPACITY BUILDING

Training	Description	Outcome
<p>3. Integrated vector management (IVM)</p> <ul style="list-style-type: none"><li>▪ partnership with Malaysia Ministry of Health</li><li>▪ 21-27 October 2018</li></ul>	<ul style="list-style-type: none"><li>▪ APMEN - 7 participants from six non-GMS countries (Solomon Islands, Vanuatu, ROK, Sri Lanka, Indonesia, and the Philippines)</li><li>▪ WHO/ACTMalaria - participants from 3 GMS countries (Thailand, Vietnam, and Cambodia)</li></ul>	<ul style="list-style-type: none"><li>▪ Increased capacity in IVM in participating NMC and sub-national programme</li></ul>

# CAPACITY BUILDING

Training	Description	Outcome
<p>4. Entomological surveillance for malaria elimination</p> <ul style="list-style-type: none"><li>▪ partnership with Malaysia Ministry of Health</li><li>▪ 18-23 November 2018</li><li>▪ co-funded with APLMA.</li></ul>	<ul style="list-style-type: none"><li>▪ APMEN - 10 participants from non-GMS countries</li><li>▪ WHO/ACTMalaria - 5 GMS participants.</li></ul>	<p>Entomology and vector control capacity increased in participating NMC and sub-national programmes.</p>

# APMEN Resource Exchange Centre in Entomology and Vector Control

- online platform on the APMEN website
- “a community of practice of public health entomologists and vector control professionals dedicated to sharing best practices, skill and career development opportunities to enhance the contribution of public health entomology and advance malaria elimination in the Asia Pacific region.”
- will be launched in April 2019 following initial pilots to test user acceptance.



# IMPROVE LINKAGES

<b>Activity description</b>	<b>Output</b>	<b>Outcome</b>
Improve linkages with SRWG and VxWG around integrating epidemiological and entomological surveillance, targeted interventions at high risk groups, and understanding the role of vector control in vivax transmission dynamics	Joint Working Group Meeting: 6 September 2018	Areas of integration identified and prioritized in 2018 workplan and beyond.



**Thank you for your attention**