



# Overview of APMEN VCWG activities 2022

APMEN VCWG Annual Meeting November 2022

# CONTEXT



**Malaria control is achieved mainly by way  
of Vector Control.**

**But effective vector control depends on  
effective vector surveillance**

*“...We estimate that interventions have averted 663 (542-753 credible interval) million clinical cases since 2000. Insecticide-treated nets, the most widespread intervention, were by far the largest contributor (68% of cases averted)....”*

Bhatt S, Weiss DJ, Cameron E, Bisanzio D, Mappin B, Dalrymple U, Battle KE, Moyes CL, Henry A, Eckhoff PA, Wenger EA. The effect of malaria control on *Plasmodium falciparum* in Africa between 2000 and 2015. *Nature*. 2015 Oct;526(7572):207-11.



## Global shortfall in vector surveillance

Burkot TR, Farlow R, Min M, Espino E, Mnzava A, Russell TL. A global analysis of National Malaria Control Programme vector surveillance by elimination and control status in 2018. *Malaria journal*. 2019 Dec;18(1):1-2.

Russell TL, Farlow R, Min M, Espino E, Mnzava A, Burkot TR. Capacity of National Malaria Control Programmes to implement vector surveillance: a global analysis. *Malaria Journal*. 2020 Dec;19(1):1-9.

Wilson AL, Courtenay O, Kelly-Hope LA, Scott TW, Takken W, Torr SJ, Lindsay SW. The importance of vector control for the control and elimination of vector-borne diseases. *PLoS neglected tropical diseases*. 2020 Jan 16;14(1):e0007831.

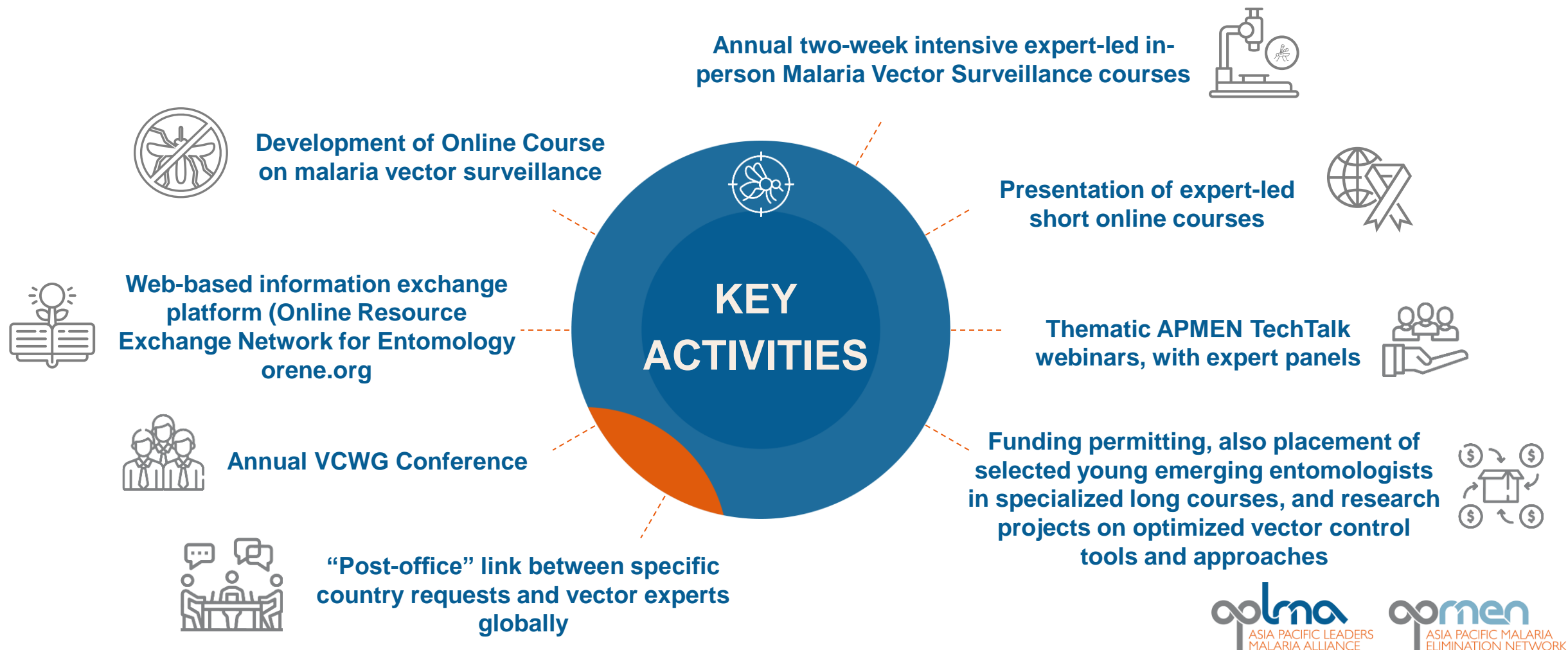
Rajagopalan PK. Medical Entomologists-A Disappearing Profession in Public Health System: Indian Perspective. *Journal of Communicable Diseases* (E-ISSN: 2581-351X & P-ISSN: 0019-5138). 2022 May 13;54(1):161-5.

Etc etc etc

...repeatedly confirmed during **APMEN VCWG**  
annual conferences...



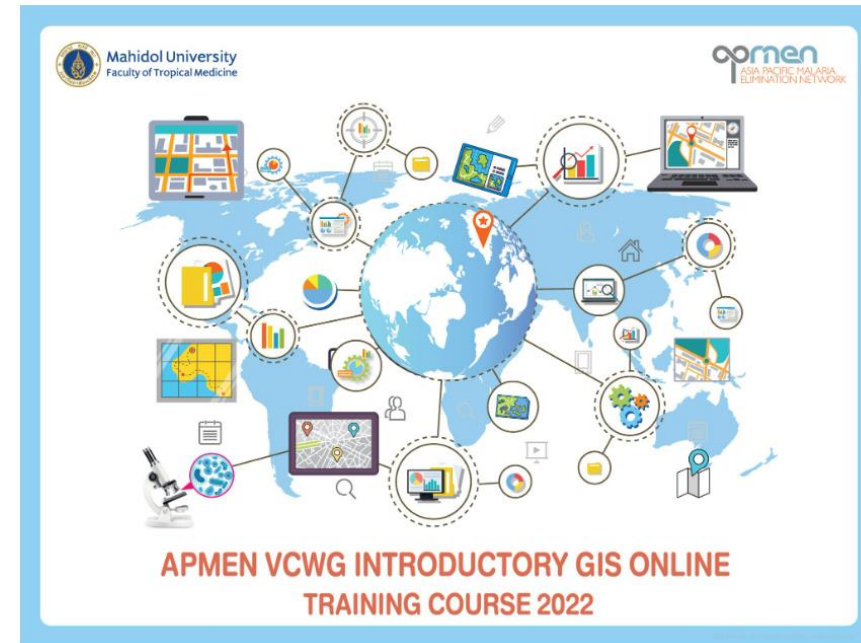
# To respond to this clear and stated need, APMEN VCWG has therefore focused on capacity strengthening in vector surveillance.



# Short courses

GIS Course

Vector Surveillance & Control Strategic Planning course



All about Bednets, Cradle to Grave

Product characteristics for optimal insecticide-treated bednets



**Dr Ole Skovmand**  
Independent consultant  
MCC47  
France

Durability of Long Lasting Insecticide-treated Nets



**Prof. Stephen Russell**  
Founder and Technical Director  
Nonwovens Innovation & Research Institute Ltd, UK

Bednet distribution and use in Papua New Guinea: Challenges and Reflections



**Tim Freeman**  
Programme Manager  
Rotarians Against Malaria  
Papua New Guinea

Why using bednets is a challenge among minority populations in Central Vietnam



**Thuan Thi Nguyen**  
PhD Student, Institute of Tropical Medicine, Belgium  
NIMPE, Viet Nam

Moderated by **Dr. Leo Braack**, Co-Chair of APMEN Vector Control Working Group, and Senior Vector Control Specialist from Malaria Consortium

The webinar will be recorded and shared on APMEN's Social Media platform and Online Resource Exchange Network for Entomologists website ([orene.org](http://orene.org))

Date: 15 June 2022, Wednesday  
Time: 2:00 PM Singapore time  
Register: <http://tiny.cc/APMEN26>

Larval Source Management:  
Historical successes, current challenges, and future potential

The control of malaria vectors in rice fields



**Kallista Chan**

PhD candidate  
London School of Hygiene and Tropical Medicine

LSM contributions to malaria elimination: Lessons from Sri Lanka



**Ravindra Jayanetti**

Former District Program Manager  
Anti Malaria Campaign  
Sri Lanka

Larval Source Management of *Anopheles stephensi* in India



**Dr. Susanta Kumar Ghosh**

Former Scientist G and Head  
ICMR National Institute of Malaria Research, India

Moderated by **Dr. Leo Braack**, Co-Chair of APMEN Vector Control Working Group, and Senior Vector Control Specialist from Malaria Consortium

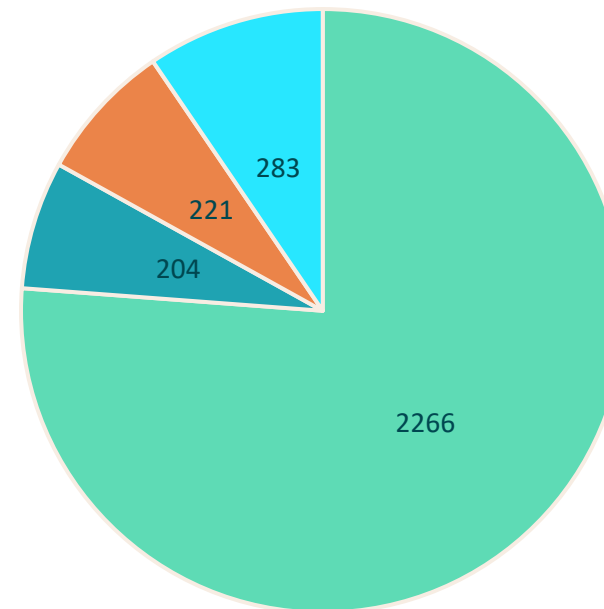
The webinar will be recorded and shared on APMEN's Social Media platform and Online Resource Exchange Network for Entomologists website ([orene.org](http://orene.org))

Date: 30 March 2022, Wednesday  
Time: 2:00 PM Singapore time  
Register: <http://tiny.cc/APMEN25>

# APMEN TechTalk Webinars

- One every 6-8 weeks
- Typically about 180 to >200 attendants per webinar, global audience

## TechTalks webinars audience distribution by region (2020-2022)



■ Asia-Pacific ■ Europe ■ Africa ■ South and North America

# APMEN TechTalk Webinars 2022



## Insecticide Resistance Monitoring and Management

Insecticide Resistance is one of the most serious challenges facing malaria control & elimination in endemic countries across the world, a major contributor to the stall in progress in global malaria reduction. In this webinar we will learn about the challenges being faced in Papua New Guinea, shifts in vector behaviour arising from insecticide pressure, and also an example of insecticide resistance management. Please join us and listen to the insights from experienced practitioners confronting these issues.



**Michelle Katusele**

Senior Scientific Officer  
Vector Borne Diseases Unit  
Papua New Guinea -  
Institute of Medical Research



**A/Prof Nigel Beebe**

Associate Professor  
School of Biological Sciences & CSIRO  
University of Queensland, Australia



**Dr Pradeep Kumar Srivastava**

Ex Joint Director  
National Center for  
Vector Borne Diseases Control, India

Moderated by **Dr. Leo Braack**, Co-Chair of APMEN Vector Control Working Group; Senior Vector Control Specialist from Malaria Consortium

The webinar will be recorded and shared on APMEN's Social Media platform and Online Resource Exchange Network for Entomologists website ([orene.org](http://orene.org))

Date: 19 Oct 2022, Wednesday

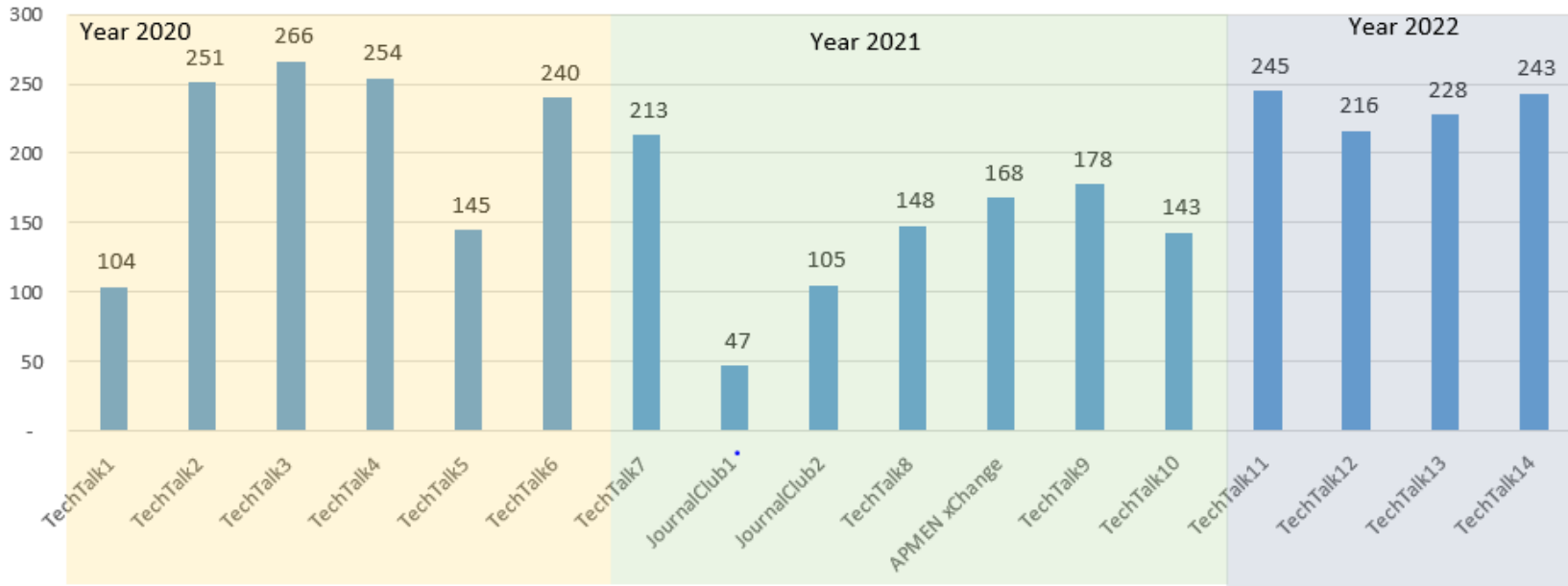
Time: 1:00 PM Singapore time

Register: <http://tiny.cc/APMEN32>

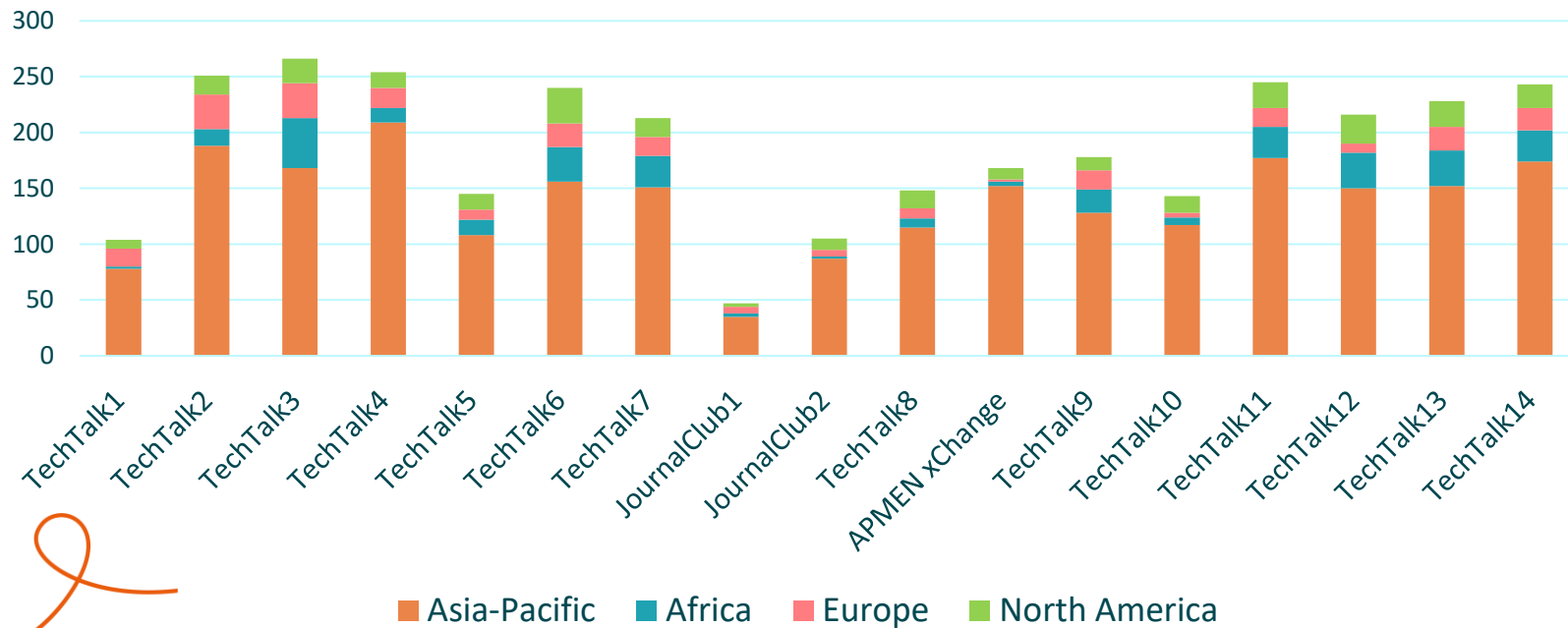


|                               |  |
|-------------------------------|--|
| TechTalk 1<br>9 February 2022 | More discussions on mosquito repellents and attractants. (Dani Lucas Barbosa;<br>Kim DY, Leepasert T, Bangs MJ, Chareonviriyaphap T; Thomas Putzer and SC Johnson) |
| TechTalk 2<br>30 March 2022   | Larval Source Management: Historical successes, current challenges, and future potential. (Kallista Chan; Ravindra Jayanetti; Susanta Ghosh)                       |
| TechTalk 3<br>15 June 2022    | All about bednets: cradle to grave: (Ole Skovmand and Sarah Moore; Stephen Russell; Tim Freeman; Thuan Thi Nguyen)   |
| TechTalk 4<br>7 Sept 2022     | The IVCC Indo-Pacific Initiative: Expanding the Vector Control Toolbox: (Fred Yeomans; Neil Lobo; Rebecca Vinit)   |
| TechTalk 5<br>19 Oct 2022     | Resistance Monitoring & Management: (Michelle Katusele; Nigel Beebe; Pradeep Srivastava)   |

Number of attendees



Geographic distribution of webinars audience



# APMEN VCWG TechTalks attendees 2020-2022



# ORENE- Online Resource Exchange Network for Entomology



CONFERENCES

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## Online Resource Exchange Network for Entomology (ORENE)

A Community of Practice for Vector Biologists in the Asia Pacific Region

MORE DETAIL

<https://orene.org>



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# Annual VCWG Conference, 2021 & 2022 Virtual

2021: 10, 12, 17 & 19 May 2021, three hours each afternoon; . Total of 287 persons registered to attend, of which 40% were from country NMCP's and 27,8% from research and academic institutions.

2022: 15, 17 and 22 November (1pm – 4pm Bangkok time)

## Key focus

- Updating on current global status in vector control, Information-sharing, learning about current challenges in the region
- Identifying and evaluating current vector control priorities
- Developing VCWG Workplan for the next year





## Funding

- UCSF MEI
  - USA Centers for Disease Control & Prevention
  - APMEN supplementing
  - Malaria Consortium salary and office costs
- 
- Significant shortfall in 2023

## Activities planned for 2023

1. Two-week MVSE course, in-person (will find co-funding partners such as PacMOSSI)
2. Online short courses
3. Extending range of Online Tutorials (but will need to find funds)
4. Webinar TechTalks
5. ORENE website <https://orene.org>
6. Annual Conference



THANK  
YOU

