Malaria Elimination in the Kayin State, East Myanmar

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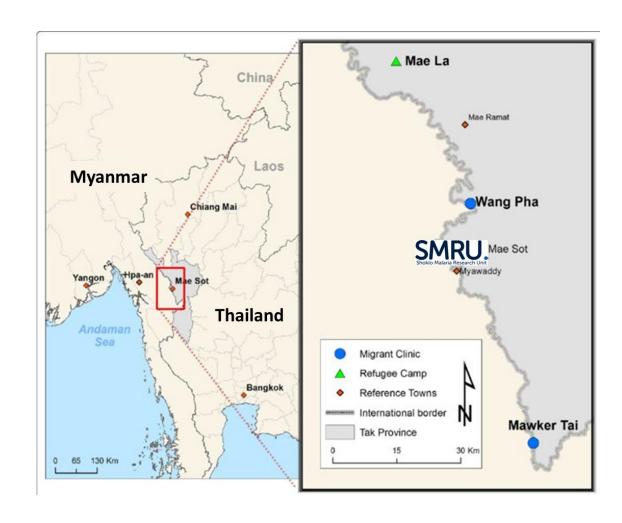




Background

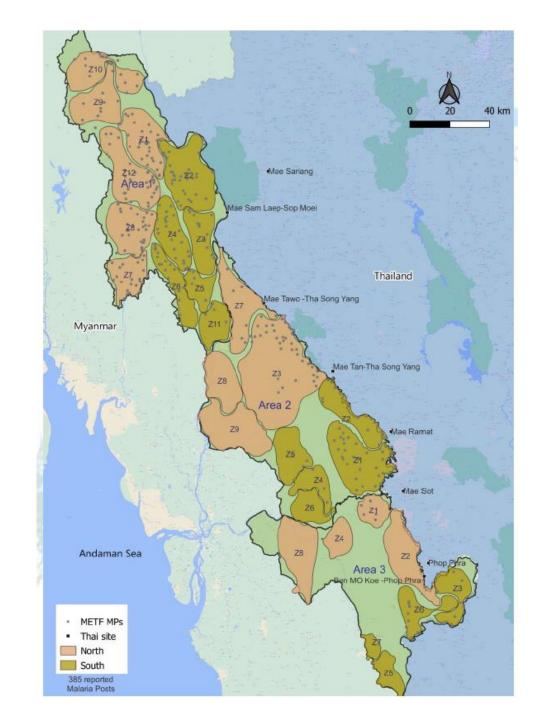


- Part of Mahidol-Oxford Research Unit network.
- Based in Maesot, Thailand,
- Established since 1986.
- Research & humanitarian work.
- Malaria, MCH, TB & other tropical infectious diseases



Malaria Elimination Task Force (Myanmar)

- Initiated in 2014
- Consortium (SMRU, Ethnic Health Organizations, and Community based organizations)
- To eliminate drug resistant P. falciparum malaria



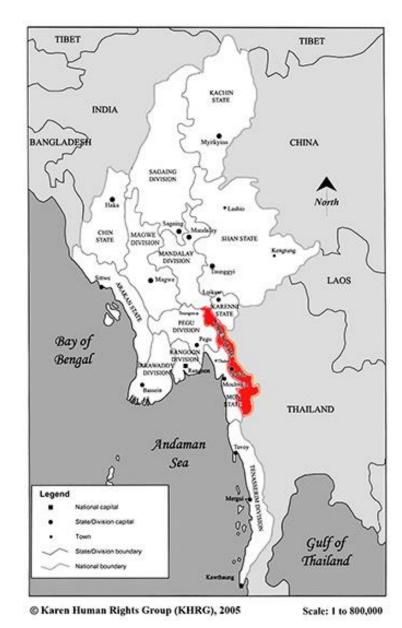
Context

- Decades of armed conflicts
- Geographical isolation
- Limited access to malaria services (general health services)









Elimination Strategy

- 1) Malaria Elimination Task Force key interventions
 - i. Community engagement
 - ii. Mapping
 - iii. Malaria Post network
 - iv. Malaria Surveillance
 - v. Sub-microscopic surveys and MDA in hot-spots
 - vi. Entomological assessment and vector control
 - vii. Artemisinin resistance monitoring



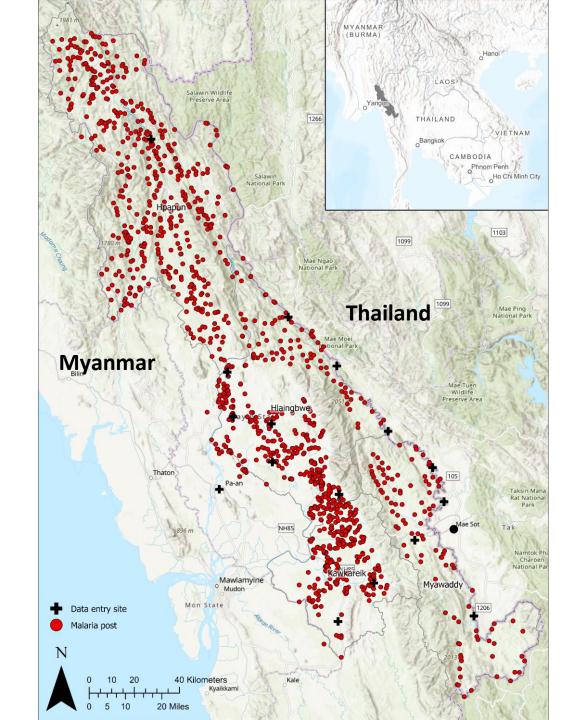




Malaria post network

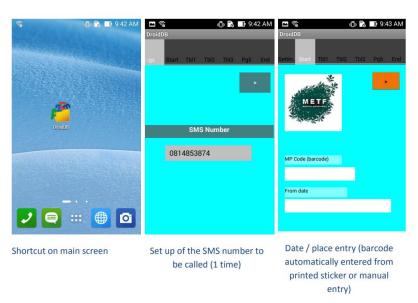
- Over 1,200 villages are set up from 2014-2022.
- Malaria Post(MP) are opened in villages with limited access to the health care services.

- MP consist of a trained health worker "malaria posts worker", stock with RDT and antimalarials
- To provide early case diagnosis and treatment
- Weekly data reporting of malaria cases

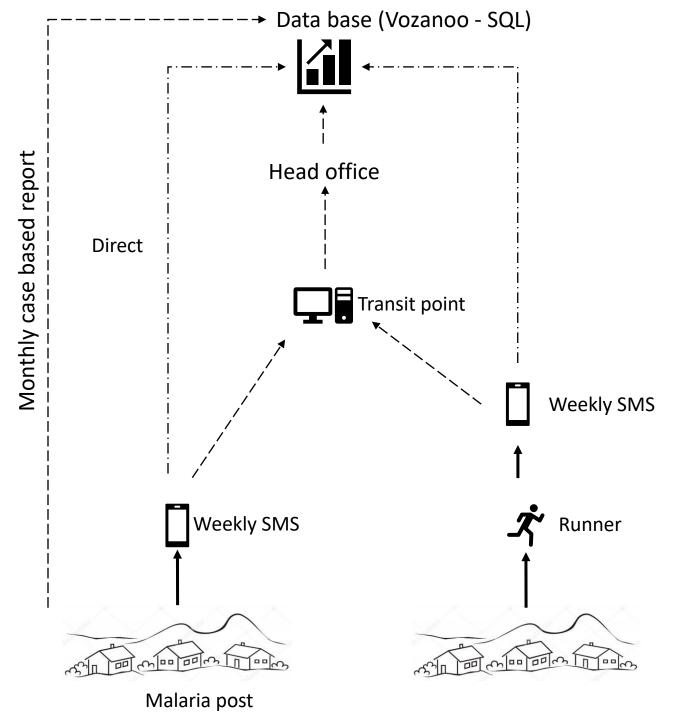


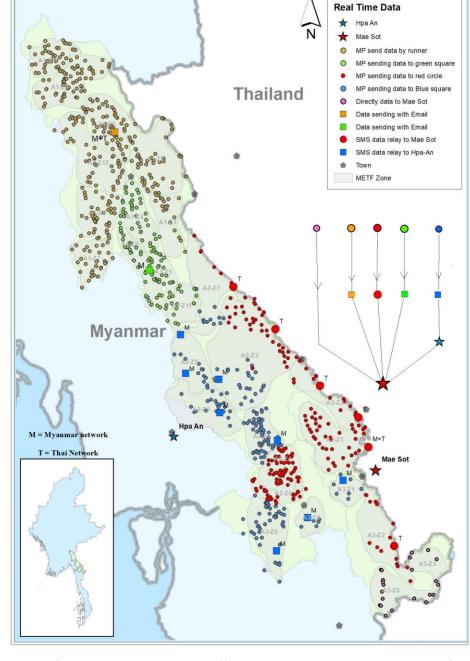
Malaria Surveillance

- Malaria post workers are the key to surveillance.
- MP structure record and submit the malaria data on weekly.
- Mobile Android-based application that use (SMS transmission) to collect data.



Android based application (use SMS signal)





Malaria posts surveillance reporting network

Surveillance System setup

- This set up require
- GIS mapping of the villages/settlements
- Identification of cross-border mobile network and coverage
- Understanding of the geographic terrain and road network
- Use of alternate communication tools such as radio transmission, runners (in area with no mobile network coverage)

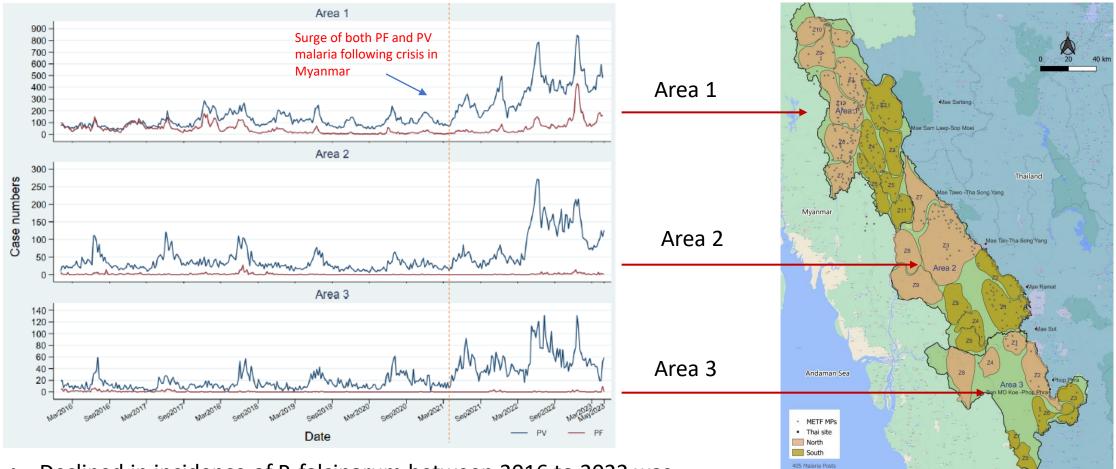






Utilization of the surveillance network

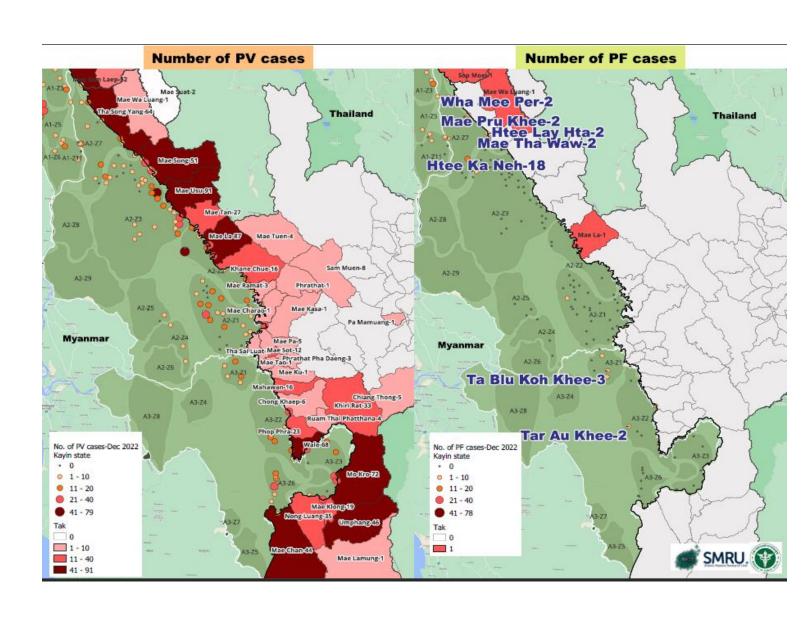
Figure 1: Total weekly case numbers for each area



- Declined in incidence of P. falciparum between 2016 to 2022 was contributed by MP through EDT
- Weekly surveillance system allow to closely monitor the malaria and trigger reactive responses such as CI, MSAT.

Utilization of the surveillance network

- Cross border surveillance along Thai-Myanmar border.
- Support the malaria control and eliminations on the Thai-border.



Summary

Malaria post workers are the core of the elimination program.

 Robust malaria surveillance system is critical to guide the malaria elimination.

Adaptive tools and methods are required according to context.

 This can be achieved even in hard to reach and resource limited context.

Thanks to

METF & SMRU team:







Funders:

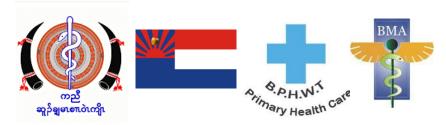




Global Fund



Partners and their staffs:







MORU









Communities in Eastern Kayin state

