PMI Malaria Vector Control Policy and Strategy Updates - 2025

RBM 19th VCWG Annual Meeting,
Kigali, Rwanda
April 15, 2024

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PMI Strategic Framework 2021 -2026

VISION:	A world free of malaria within our generation
GOALS:	Prevent malaria cases, reduce malaria deaths and illness, and eliminate malaria in PMI partner countries

OBJECTIVES:

1. Reduce deaths by 33% from 2015 level
2. Reduce illness by 40% from 2015 level
3. Accelerate towards elimination in 10 countries and eliminate in ≥ 1 country

FOCUS 1	FOCUS 2	FOCUS 3	FOCUS 4	FOCUS 5
Reach the unreached with effective interventions	**Strengthen community health systems** to defeat malaria	**Keep malaria services resilient** against shocks including COVID-19	**Invest locally** in partners and governments to lead	**Lead and innovate** to end malaria faster

PMI Vector Control Priorities

- Localization
- Question -driven surveillance
- Emerging resistance
- New tools

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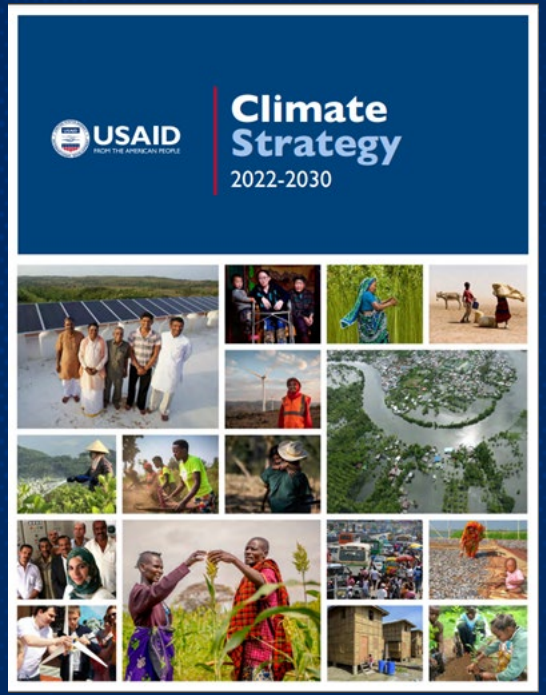
USAID Priorities

"If we truly want to make aid inclusive, local voices need to be at the center of everything we do."

-ADMINISTRATOR SAMANTHA POWER



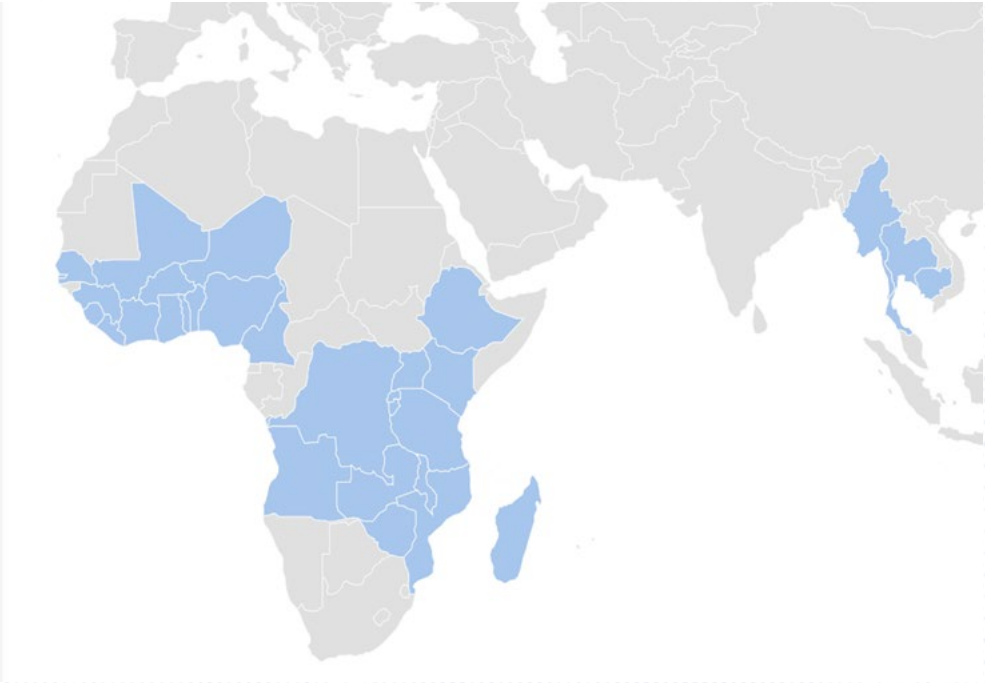
Localization

- Local partnerships, local leadership in programming priorities, codesigning projects, driving implementation and impact evaluations

Climate

- Locally led development
- Equity and Inclusion
- Private Sector Engagement
- Nature-Based Solutions
- Evidence, Technology, and Innovation

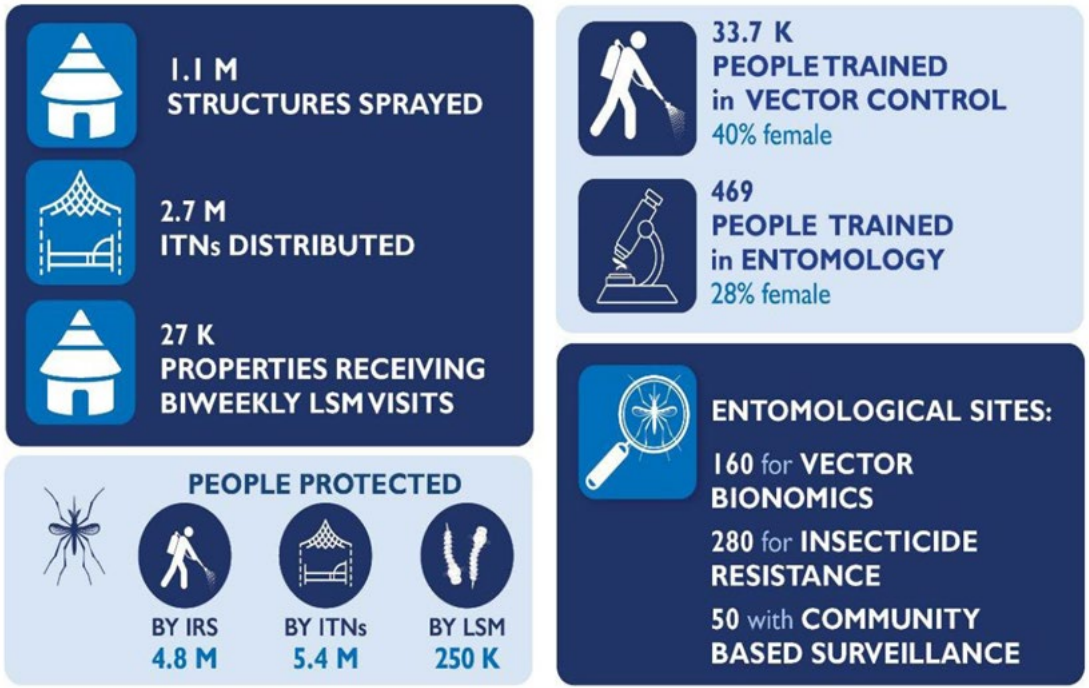
Where we work



- 30 partner countries
  - Togo, Gambia, Burundi in 2023
- Evidence-informed deployment of traditional and new vector control tools
- May entail sub-national stratification of interventions
- Operational Research/Program Evaluations for new tools and/or approaches

PMI Entomology and Vector Control

PMI Evolve (supported 20 countries in 2023)



- Hundreds of entomological sites
- IRS, ITN, LSM activities
- Training programs and capacity strengthening

Localization Strategies

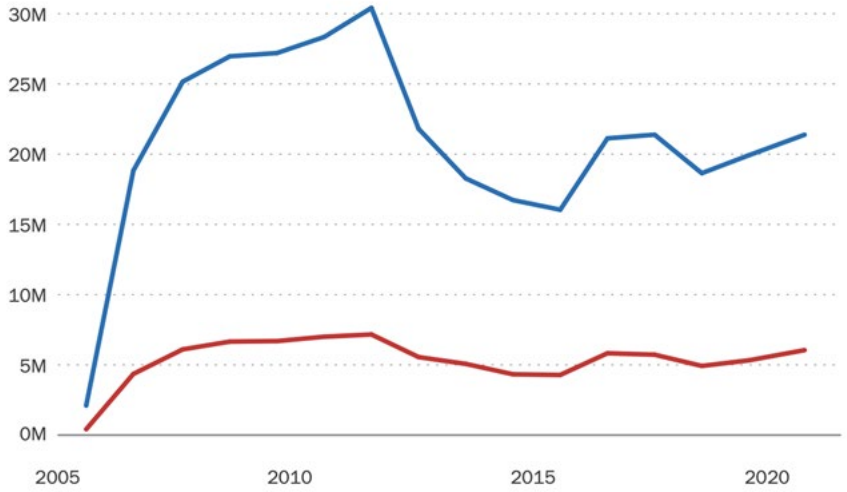
- A strategic, intentional shift towards country-led, sustainable vector control programs

- Capacity strengthening and localization are current priorities for central mechanism, ultimately transitioning to local ownership

Entomological Monitoring Updates

- Question-drive surveillance
  - ESPT tool use
- Local institutions leading
- Decentralized entomological surveillance
- Strengthening systems through malaria vector surveillance (IVM)
- Human-vector integration for decision making
- Molecular capacity strengthening

IRS Updates - New Insecticides and Approaches



ALL YEARS
ANNUAL

Residents Protected

Houses Sprayed

FY 2021

5,470,411 houses sprayed

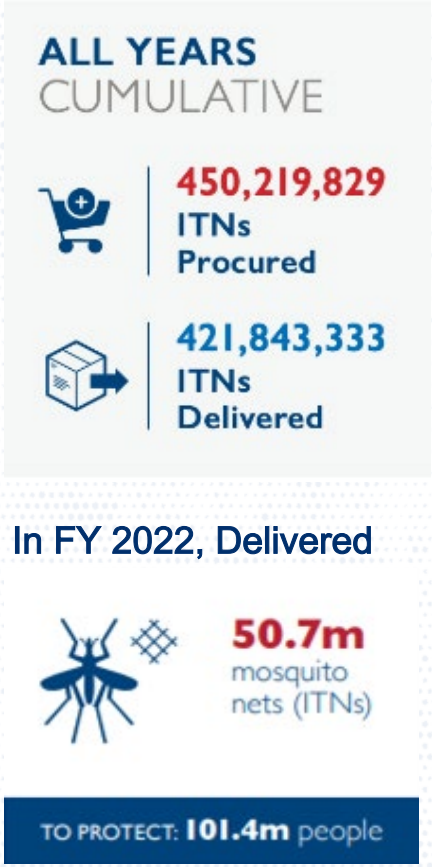
21,235,024 residents protected

33,086 personnel trained

- In 2023 and 2024 PMI implementing IRS using broflanilide-based products in Madagascar, Ethiopia, Sierra Leone and Ghana and launching susceptibility testing
- Entomological data guiding control- Example: Ghana IRS in animal shelters

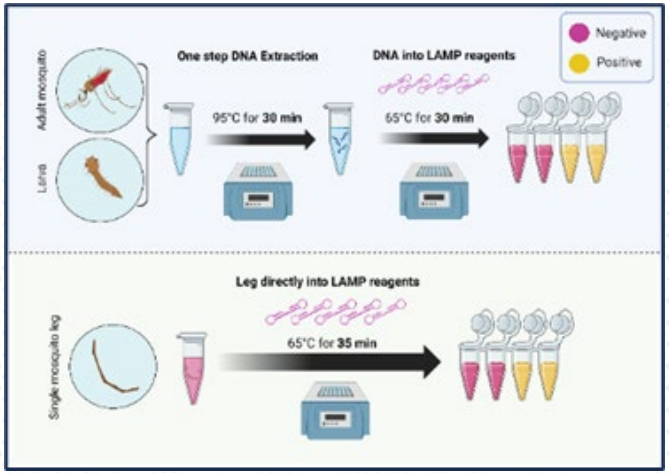
ITN Updates

- In FY 2023, the number of ITNs procured by PMI
  - Dual AI: 8, 231,343(18%)
  - PBO: 31,705,978 (68%)
  - Single pyrethroid: 6,928,723 (15%)
- Countries encouraged to explore continuous distribution to sustain effective coverage
- Durability monitoring ongoing and generating data on dual AI and PBO in various settings
- ITN decisions supported by insecticide susceptibility and entomological surveillance data
- PMI can support country efforts to incorporate the use of digital tools



Anopheles stephensi Updates

- Policy for LSM response utilizing PMI funding
- Generated data and action plan to guide enhanced surveillance and control
- Dissemination of reference specimens and protocols molecular identification
- OR support to Dire Dawa University to determine effectiveness and cost effectiveness of LSM for *An. stephensi*
- Convening US government and global partners to shift to action, leveraging and coordinating support



Other Vector Control Guidance Updates

- Larval Source Management (LSM)
  - In elimination settings
  - Where *An. stephensi* has been detected
  - Aquatic agriculture (rice fields) where entomological data supports and larval habitats readily identified
- Topical Repellents
  - In elimination settings and for high-risk, mobile population
- Housing Modification
  - OR study in Uganda using house screening and eave tubes

Recent OR/PE Investments

- Impact of housing modifications combined with PBO ITNs on the malaria burden in Uganda- complete
- Can PBO ITNs be an effective vector control tool in Ethiopia- complete
- Impact of PBO ITN and IRS co-deployment in Sierra Leone- complete
- Evaluating the feasibility and impact of larval source management in aquatic agriculture in regions with high malaria burden in Madagascar-complete

Current OR/PE Investments

- Effectiveness of LSM for *An. stephensi* on malaria epidemiology Ethiopia
- IRS withdrawal- Mozambique
- ITN accelerometer as tool to measure use- Cameroon
- Entomological and epi impact of case management and vector control in daaras- Senegal

Challenges

- Limited funding envelope and tool availability leads to difficult vector control decisions
- Emerging resistance to clothianidin and chlorfenapyr threatens ITN and IRS strategies
- New threats to malaria vector control (*An. stephensi* climate, etc.)

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Opportunities

- Transitioning vector control decision-making and implementation to local partners
- Decentralized approaches to entomological monitoring (e.g., community-based)
- Refining estimates of malaria transmission risk by better defining vector-human interactions
- Ensuring strategic deployment of integrated vector control interventions subnationally
- Data analytics and visualization platform and harmonization with WHO DHIS2 modules
- Partner coordination to drive accountability, quality, innovation

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Questions?

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