RBM Partnership To End Malaria

Vector Control Working Group

29 April 2021

16th Annual VCWG Meeting 2021 Virtual Event Session 5: Expanding the Vector Control Toolbox workstream

Workstream Co-Leads: Sheila Barasa and Allison Tatarsky

Agenda Session 5: Expanding the Vector Control Toolbox

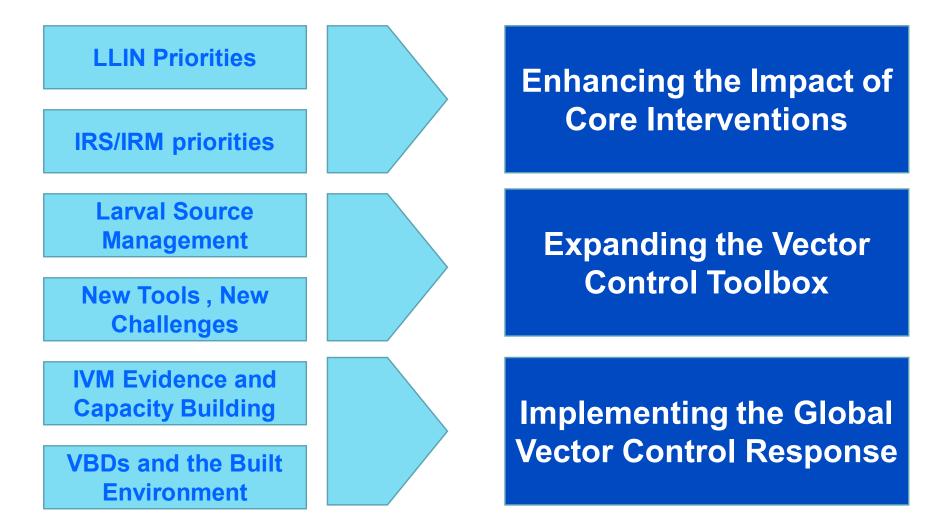
- 1. Welcome and scene setting
- 2. Theme: Innovations in vector control and surveillance bite prevention
- 3. Theme: Larval source management
- 4. Theme: Human behavior, human centered design, and vector control
- 5. Paradigm updates
- 6. Discussion and wrap up

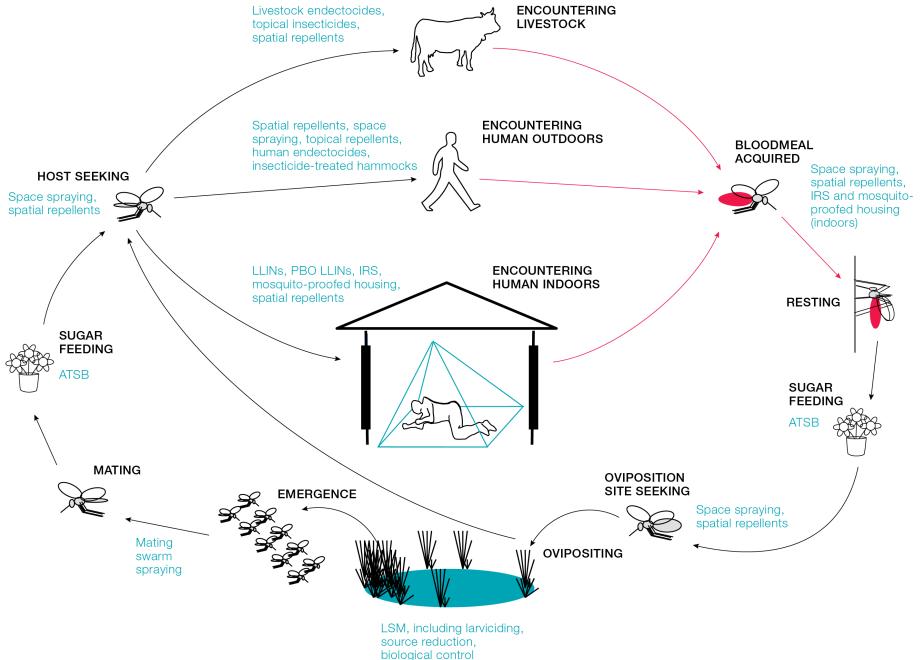
Session reminders

- Please put questions in the chat, noting "Question @ [name of speaker]"
- There will be a Q&A session after every 3-4 presentations
- Speakers have 10 minutes maximum; 8 minutes is even better!
- English and French translation is available, as well as Spanish for the human behavior session
- All slides are available on the Attendee Hub
- Thank you for your participation and collaboration!

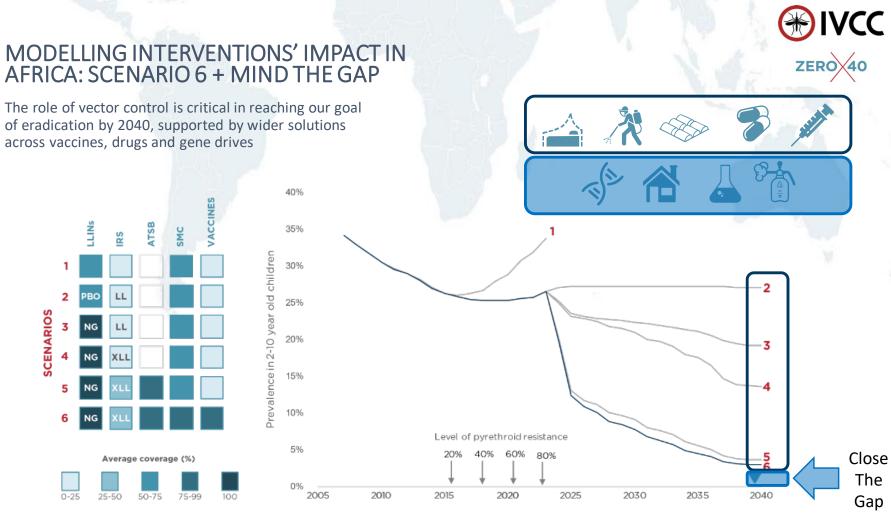
Transitioning from the past

Activities of previous workstreams are now integrated under new ones





Adapted from Kiware et al. 2017



Modelling by Imperial College (Ellie Sherrard-Smith, Tom Churcher)

New themes as a result of feedback from workstream members

- Reviewing existing tools/approaches but with improved methods or innovation around delivery, program implementation, and evaluation; examples include:
 - LSM (integrated during restructuring),
 - Space spray and targeted swarm spraying, and
 - Outdoor residual spraying, among others
- Emphasizing human behavior research in vector control research and incorporating human centered design in the development of new vector control tools
- Supporting Ifakara Health Institute Master Classes on vector biology and control
- Including more voices from country programs

Workstream themes and focus outputs

	Focus Output 1 Identify tool gaps or capacity needs & steer research priorities	Focus Output 2 Policy clarification & evaluation pathways	Focus Output 3 Implementation/Operational scale-up support/Training and capacity building initiatives
 Work stream 2: Expanding the Vector Control Toolbox Themes: Larval Source Management Innovations in vector control and surveillance Anthropology and human centred design in the context of vector control Co-Leads: Allison Tatarsky Sheila Barasa 	 Review technology for LSM e.g., GIS, satellite imagery, use of drones, new application technology, etc. Develop and maintain an inventory of new vector control tools and approaches including repellents, endectocides, ATSBs, SIT, genetic control, etc. 	 Gather evidence for environmental management including habitat modification and manipulation as priority interventions in LSM and promote within the Multi Sectoral Working Group (MSWG) Develop framework for, and actively track and share, updates on new vector control paradigm roadmaps Share VCAG updates on new paradigms as part of paradigm roadmap tracking 	 Review operational LSM in national malaria programmes and collate evidence of impact, as well as training and technical support needs Elevate national malaria program operational research questions for vector control beyond LLINs and IRS Highlight innovation and opportunities to incorporate anthropological methods and human centred design into the development, evaluation, and scale up of vector control tools

Contributions to paradigm roadmap tracking



What is MESA Track?

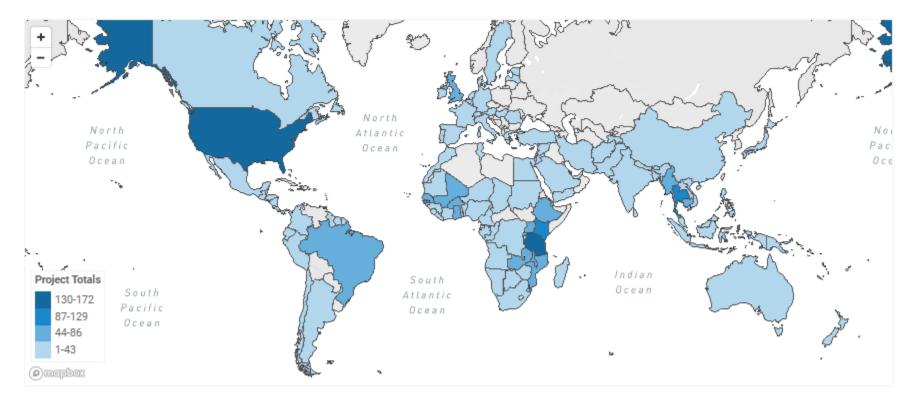
MESA Track (www.mesamalaria.org/mesa-track) is an open and regularly-updated database of ongoing (and completed) malaria research.



All Projects



Project Sites





Search MESA Track

Search

Please enter a search term.

_						
	h	0	200	0	0	
		н		Р	5	
		~		~	~	٠

All

Principal Institutions:

All					
-----	--	--	--	--	--

Principal Investigators:

All	v
-----	---

SEARCH

Project Sites:

All

Q

Partner Institutions:

All

Funding Amounts:

to

Project Timeline:

dd/mm/yyyy	🗖 to	dd/mm/yyyy	
------------	------	------------	--

Funding Sources

All	Ŧ	

Show Active Projects



Overview of vector-based strategies in

TOTAL PROJECTS 270 47 active **\$508M** \$196M active PROJECT SITES
78
41 active

PRINCIPAL INSTITUTIONS
122
36 active

Funding Sources *

Bill & Melinda Gates Foundation		42	•	lfa
U.S. President's Malaria Initiative		36		RE
Wellcome Trust, UK	2	26		Ba
National Institute of Allergy and I	23	3		
Grand Challenges Canada	11			Ce
Medical Research Council (MRC)	11			Liv
Department for International Dev	8			На
IVCC, UK	8			Lo
United States Agency for Interna	7			Ma
European Commission	6			

Principal Institutions *

akara Health Institute (IHI), Tan... 49 BM Vector Control Working Gro... 20 arcelona Institute for Global He... 13 IVCC, UK 12 enters for Disease Control and ... 11 iverpool School of Tropical Med... 11 arvard T.H. Chan School of Pub... 10 ondon School of Hygiene & Tro... 🗧 8 1anhiça Health Research Centre... 🧧 8 University of Notre Dame, USA 8

*# of projects, top 10

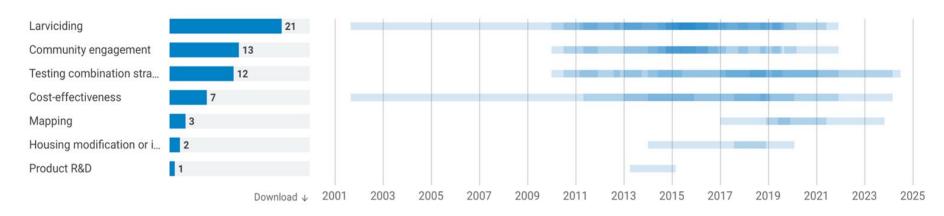




Research Area

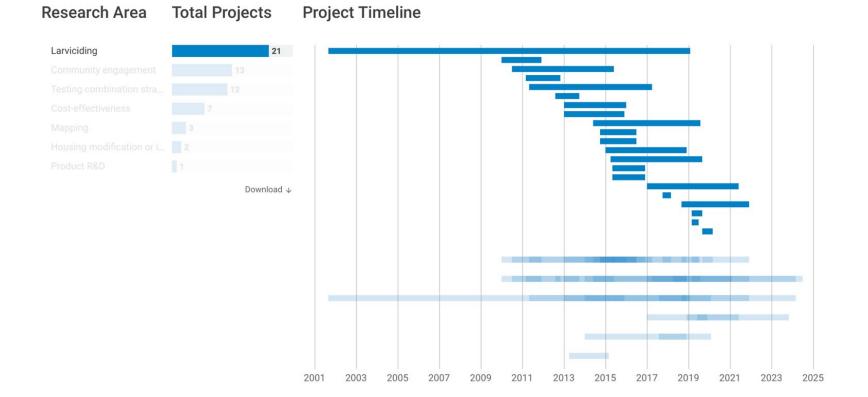
Total Projects

Project Timeline



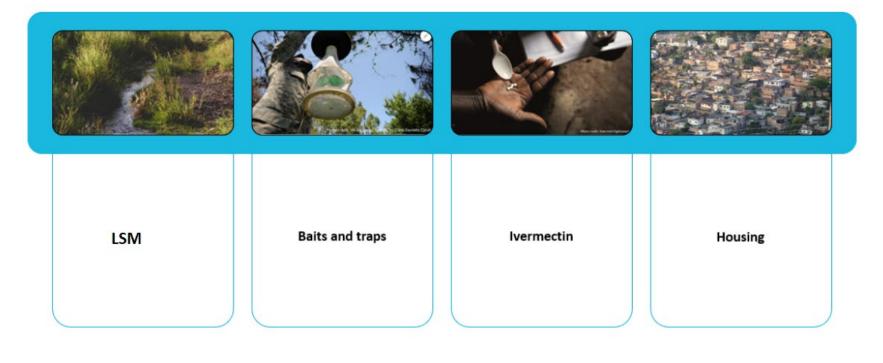


Larviciding





Landscaping of vector control tools under investigation http://www.mesamalaria.org/mesa-track/deep-dives





Contact us!

MESA Track can serve to facilitate review of data as it emerges, to evaluate the overall funding and activity window, and to facilitate contact with Principal Investigators for queries into design.

Know more: <u>www.mesamalaria.org/mesa-track</u>

Watch a short introductory video: <u>http://www.mesamalaria.org/resource-hub/what-mesa-track</u>

Submit your research at mesa@isglobal.org

Agenda Session 5: Expanding the Vector Control Toolbox

- 1. Welcome and scene setting
- 2. Theme: Innovations in vector control and surveillance bite prevention
- 3. Theme: Larval source management
- 4. Theme: Human behavior, human centered design, and vector control
- 5. Paradigm updates
- 6. Discussion and wrap up

Task teams

- 1. Human behavior, human centered design, and vector control
- 2. Larval source management
 - 1. LSM technology i.e. GIS, satellite, use of drones, new application technology etc.
 - 2. Evidence on habitat modification and manipulation
 - 3. Operational LSM and impact at the NMCP level
- 3. Vector control paradigms
 - 1. ATSBs
 - 2. Genetic control
 - 3. Spatial repellents
 - 4. Endectocides
 - 5. Housing
- 4. Tracking national malaria program operational research agendas
- 5. Vector control product inventory **IVCC**
- 6. VCAG updates **WHO VCAG**

Role of task teams

- 1. Varied responsibilities depending on the team
- 2. Human behavior identify partners in the space and priorities/projects for the workstream work plan
- 3. Vector control paradigms provide updates for roadmap tracking; workstream co-leads to develop framework for tracking
- 4. Others TBD as they are formed and gaps are identified

Workstream communication

- 1. Preferences?
- 2. Semi-annual newsletters updates from workstream co-leads and task teams
- 3. Ad hoc calls with task teams
- 4. Webinars?