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**Workstream 1:**  
Enhancing the Impact of  
Core Interventions

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**Workstream 2:**  
Expanding the vector  
control toolbox

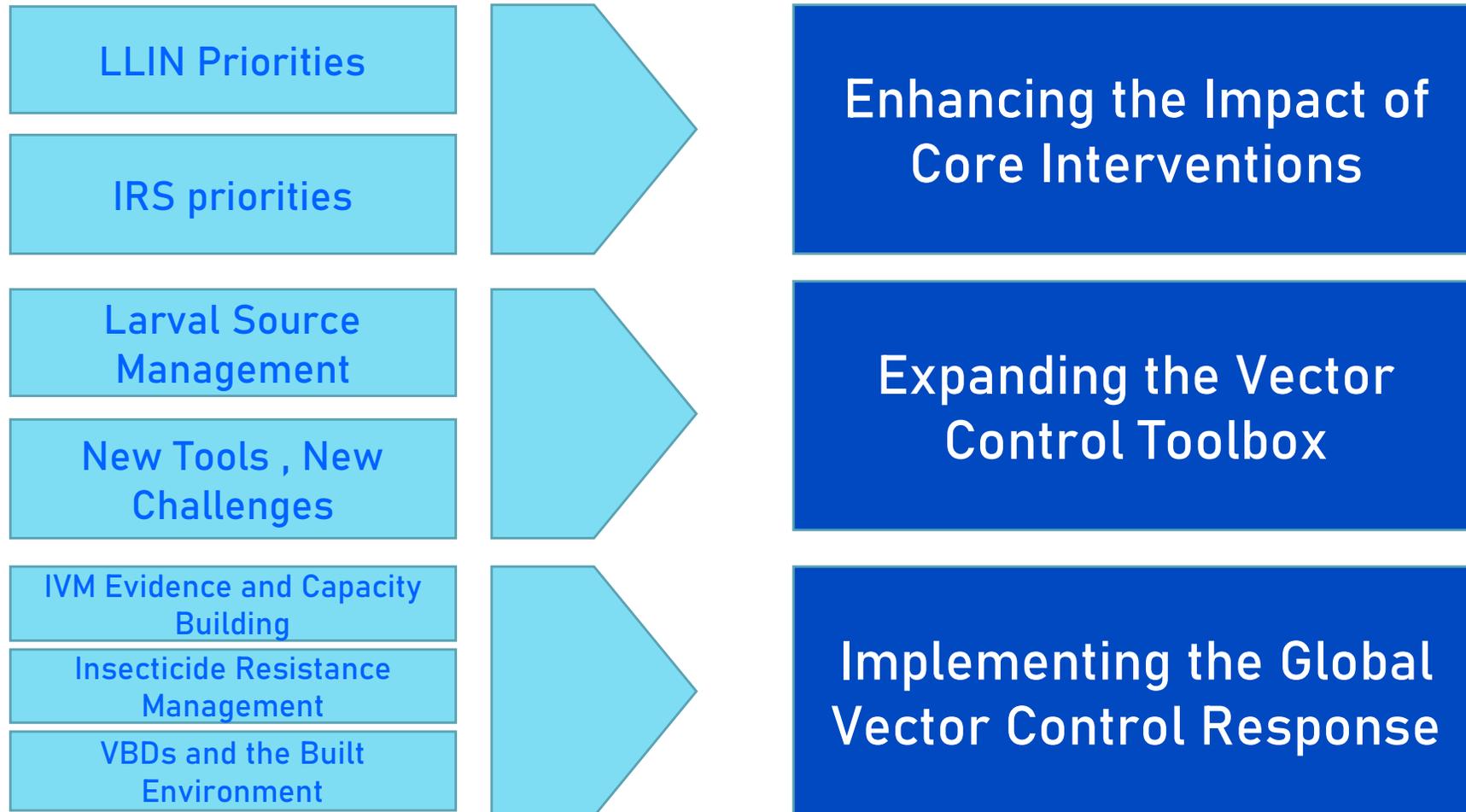
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**Workstream 3:**  
Implementing the Global  
Vector Control Response

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# Transitioning from the past

Activities of previous workstreams are now integrated under new ones



# Expanding the Vector Control Toolbox

Co-Leadership of workstream: Allison Tatarsky and Sheila Barasa

	<b>Focus Output 1</b> Identify tool gaps or capacity needs & steer research priorities	<b>Focus Output 2</b> Policy clarification & evaluation pathways	<b>Focus Output 3</b> Implementation/Operational scale-up support/Training and capacity building initiatives
<p><b>Work stream 2:</b> <b>Expanding the Vector Control Toolbox</b></p> <p><b>Themes:</b></p> <ul style="list-style-type: none"> <li>➤ Larval Source Management</li> <li>➤ Innovations in vector control and surveillance</li> <li>➤ Anthropology and human centred design in the context of vector control</li> </ul> <p><b>Co-Leads:</b> Allison Tatarsky Sheila Barasa</p>	<ul style="list-style-type: none"> <li>▪ Review technology for LSM e.g., GIS, satellite imagery, use of drones, new application technology, etc.</li> <li>▪ Develop and maintain an inventory of new vector control tools and approaches including repellents, endectocides, ATSBs, SIT, genetic control, etc.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Gather evidence for environmental management including habitat modification and manipulation as priority interventions in LSM and promote within the Multi Sectoral Working Group (MSWG)</li> <li>▪ Develop framework for, and actively track and share, updates on new vector control paradigm roadmaps</li> <li>▪ Share VCAG updates on new paradigms as part of paradigm roadmap tracking</li> </ul>	<ul style="list-style-type: none"> <li>▪ Review operational LSM in national malaria programmes and collate evidence of impact, as well as training and technical support needs</li> <li>▪ Elevate national malaria program operational research questions for vector control beyond LLINs and IRS</li> <li>▪ Highlight innovation and opportunities to incorporate anthropological methods and human centred design into the development, evaluation, and scale up of vector control tools</li> </ul>

# Highlights of key achievements of previous 2019-2020 workplans

## NTNC Project #1: Identification of *Anopheles* vectors

Resolving current challenges on identification of malaria vectors in residual transmission settings.

- Completed: Irish, S. R., Kyalo, D., Snow, R. W., & Coetzee, M. (2020). Updated list of *Anopheles* species (Diptera: Culicidae) by country in the Afrotropical Region and associated islands. *Zootaxa*, 4747(3), zootaxa.4747.3.1. <https://doi.org/10.11646/zootaxa.4747.3.1>
- Completed: Coetzee, M. (2020). Key to the females of Afrotropical *Anopheles* mosquitoes (Diptera: Culicidae). *Malaria Journal*, 19(70). <https://doi.org/10.1186/s12936-020-3144-9>
- Under consideration for the revised WHO practical ento guidelines: Development of protocols to ensure correct association of molecular identification with morphological identification of mosquito specimens.

# Highlights of key achievements of previous 2019-2020 workplans

## NTNC Project #2: Develop draft guidelines for measuring residual malaria transmission and its drivers

- Completed: Monroe, A., Moore, S., Okumu, F., Kiware, S., Lobo, N. F., Koenker, H., Sherrard-Smith, E., Gimnig, J., & Killeen, G. F. (2020). Methods and indicators for measuring patterns of human exposure to malaria vectors. *Malaria Journal*, 19(1). <https://doi.org/10.1186/s12936-020-03271-z>

## LSM Project #3: Review operational LSM in national malaria programs and identify evidence of impact

- Ghana, Niger, Rwanda, and Uganda incorporate LSM and mapping in their vector control programs and Botswana, Namibia, and Swaziland launch LSM operational research with WHO-AFRO and ICIPE

# 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
  - Outdoor residual spraying
- Emphasizing human behavior research in vector control research and incorporating human centered design in the development of new vector control tools
- Understanding urban malaria
  - Including invasive species in urban settings (e.g. *Anopheles stephensi*)

# Transition from previous workplan to new workplan

## Former workplan elements are maintained under new structure

### Larval Source Management

- Review technology for LSM e.g., GIS, satellite imagery, use of drones for mapping and larviciding, new larvicide-application technology, aerial application, etc.
- Gather evidence for environmental management including habitat modification and manipulation as priority interventions in LSM and promote within the MSWG
- Review operational LSM in national malaria programmes and collate evidence of impact, as well as training and support needs

### Innovations in vector control and surveillance

- Maintain a live inventory of publicly available information on new vector control tools such as ATSBs, endectocides, spatial repellents, genetic control, etc.
- Develop a framework for actively tracking and sharing updates on new vector control paradigm roadmaps
- Tracking and sharing knowledge on mosquito ecology, vector control, malaria transmission and epidemiology through series of MasterClass virtual classes with experts from our community
- Share VCAG updates on the vector control product policy pipeline

### Anthropology and human centered design in the context of vector control

- Highlight innovation and opportunities to incorporate anthropological research and human centered design into the development, evaluation, and scale up of new vector control tools

# Status of Task Force recruitment

- We will be following the criteria as described by the VCWG Co-Chairs and Secretariat
- Task Force members will be identified by their contributions to the workstream workplan i.e. point people for the workplan activities
- Task Force membership is activity-specific and will therefore be dynamic based on activities and priorities of the workstream
- We expect to have a preliminary list of Task Force members to share during the session on April 29th

# Preliminary agenda for April 29<sup>th</sup> EVCT workstream session

## Larval Source Management

- Presentations and discussion on evidence for environmental management including habitat modification and manipulation as priority interventions in LSM

## Innovations in vector control and surveillance

- Presentations and discussion on roadmaps for vector control paradigms:
  - Bite prevention
  - Attractive targeted sugar baits (ATSB)
  - Endectocides
  - Genetic control

## Anthropology and human centered design in the context of vector control

- Presentations and discussion on integrating human centered approaches to enhance efficacy of vector control interventions

18 March 2021

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# Discussion

Dr Allison Tatarsky – University of California  
Dr Sheila Ogoma – Clinton Health Access Initiative