



GLOBAL ARBOVIRUS INITIATIVE

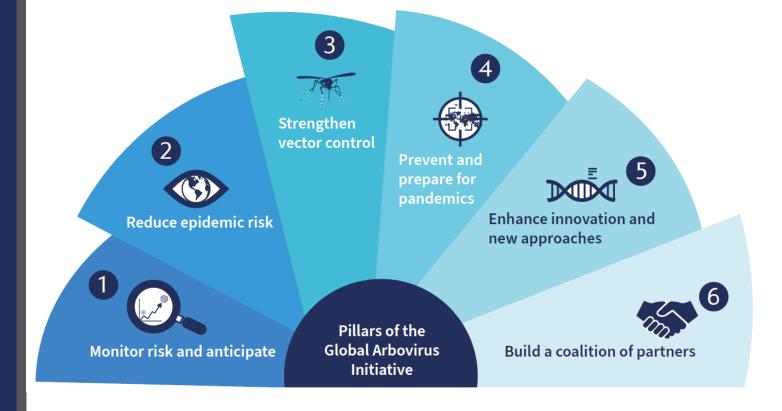
Preparing for the next pandemic: tackling mosquito-borne viruses with epidemic and pandemic potential



2023-2025

A joint initiative of the WHO Health Emergencies programme, the Department of Control of Neglected Tropical Diseases and the Department of Immunization, Vaccines and Biologicals





3: Establish institutional training and technical support networks; Establish devolved vector control services, with intersectoral support

5: Improve methods for generating evidence from combined interventions (e.g vector control) for which "gold standard" RCTs cannot be conducted.

Strategic Engagement with Private Pest Management Associations













Greater Chennai Municipal Corporation vector control services for dengue, malaria, JEV



Urban Agriculture and Farmer Field Schools

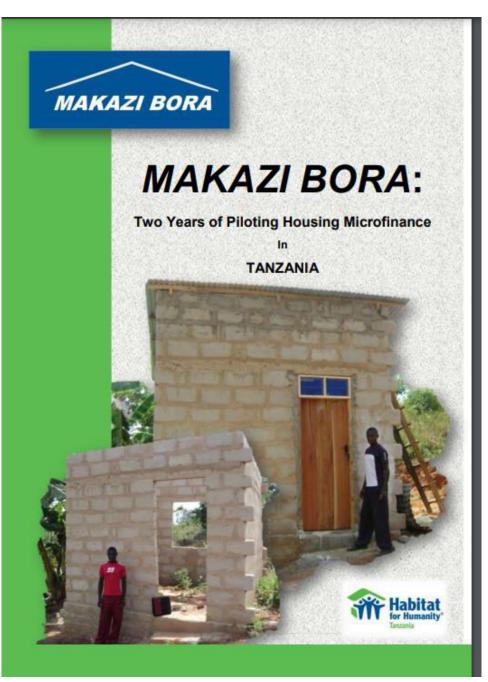
Larval recognition and control; pesticide and resistance management









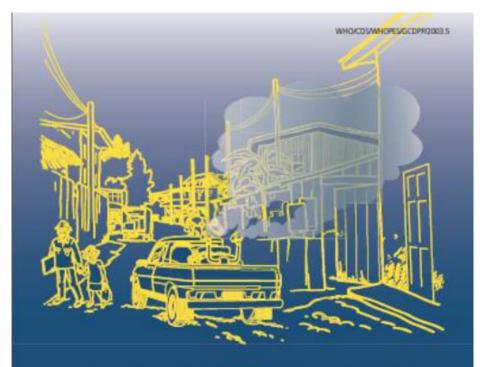


Microfinance/remittance for incremental housing improvements









Space spray application of insecticides for vector and public health pest control A practitioner's guide

Communicable Disease Control, Prevention and Eradication WHO Pesticide Evaluation Scheme (WHOPES)



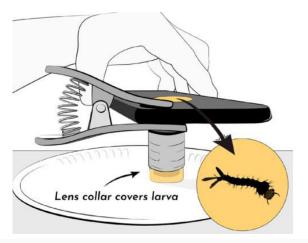
Space Spray

Everyone does it; most poorly

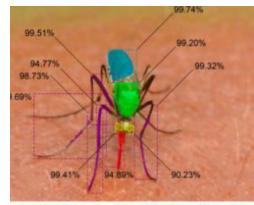
- Currently not recommended for malaria, poor cost-effective evidence for Aedes
- Urgent need to improve Quality Assurance:
 - Pesticide choice, droplet size calibration, time and route of application
 - Post-spray mosquito monitoring

Technology for larval surveillance and control

- Citizen science
- info management (ZZAPP)
- Wide Area Larviciding
- UAS for remote sensing and larvicide delivery







Mack Danisa hannel Convolutional Neural Natura







Building a broader approach to mosquito management across the built environment

Strategic Opportunities

- Breaking down silos between NTD and Malaria
- Private Pest Control Associations
- Tax-base municipal programs
- Farmer Field Schools
- Microfinance and remittance for housing improvements

Tactical Opportunities

- Improved QA for Space Spay to make less cost-inefficient
- Technology improvements for larval source management
 - Citizen science and ICT
 - Wide Area Larviciding
 - UAV for targeting and delivery