

# Framework for Integrated Vector Control

## BMGF-funded initiative

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IFRC Auditorium, IFRC, Geneva



# Project goal

**Development of an actionable, global, strategic framework based on IVM principles, supported by mathematical modeling**

# Objectives

1. **Production of a global map showing the combined distribution of all major vector-borne diseases.**
2. **Selection of specific vector control tools that are effective at reducing each major vector borne disease and selection of surveillance tools for monitoring these diseases.**
3. **Selection of interventions for IVM**
4. **Development of a strategic framework for rationale decision-making for selection of interventions for the control of vector-borne diseases.**
5. **Production of IVM manuals for the local selection and application of vector control tools, one each for Africa, South America and South-East Asia.**

# Deliverables

1. Global maps showing the aggregate distributions of the world's major vector borne diseases.
2. A review of the literature to identify key strategies for the control of the world's most important vector borne diseases and surveillance systems.
3. Using the transmission of lymphatic filariasis (LF) and malaria by *Anopheles gambiae* in Africa as an exemplar, a mathematical model will be developed to determine the effectiveness of key interventions (long-lasting insecticidal nets, indoor residual spraying, and larviciding) in reducing transmission of both diseases.
4. A manual to be published describing the Framework for Integrated Vector Control.
5. Manuals to be published describing the selection and application of vector control tools, one each for Africa, South America and South East Asia.
6. Approval of manuals by an independent group of WHO experts.

# Collaborators

Person	Institution	Activity
Steve Lindsay	Durham University	PI & Manual production
Simon Hay	University of Oxford	Mapping
Simon Brooker	LSHTM	Mapping
Nakul Chitnis	Swiss TPH	Modelling
Raman Velayudhan	WHO	Coordination