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# RBM Vector Control Working Group

Work Stream: Durability of LLIN in the Field  
**Update on textile lab study**

Albert Kilian

8th Annual Meeting  
28-30th January 2013  
IFRC Geneva



# Causes and Mode of Deterioration of LN

- Building on results of 2012 textile meeting
- Project proposal submitted and approved by Bill & Melinda Gates Foundation Oct 2012
  - Research For Development Institute (lead)
  - Nonwovens Innovation & Research Institute (textile)
  - Tropical Health LLP (net collection, epidemiology)

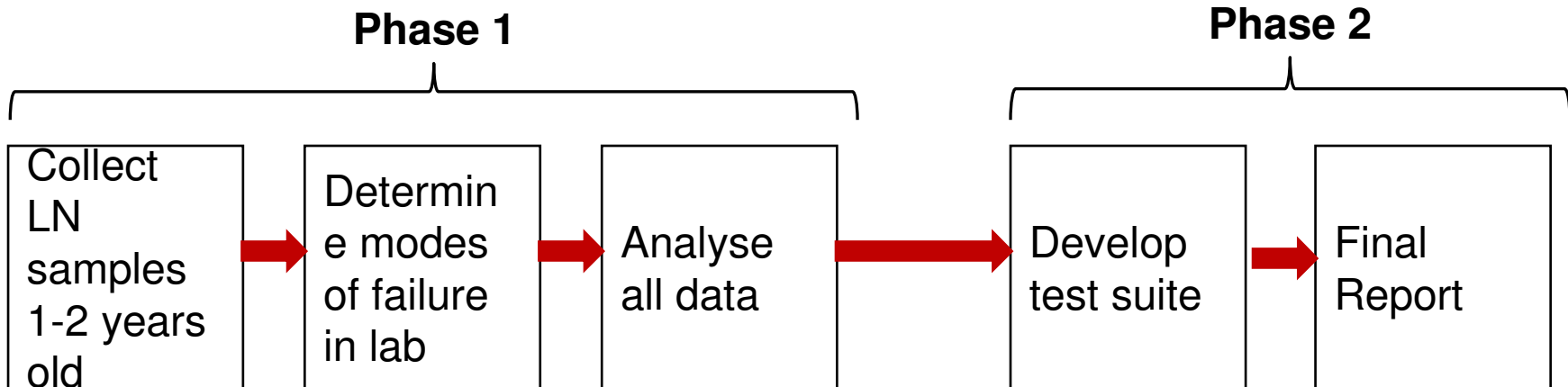
BILL & MELINDA  
GATES *foundation*



# Rationale

- Guidance on expected performance of LN products is desirable and needed for Value for Money procurement
- Current textile test results do not correlate well with field data on performance
- To develop a test battery that can predict expected performance better understanding of "modes of failure" is needed
- Random samples of netting materials from well defined environments will allow textile analysis of causes and modes of failure and deterioration
- Based on these findings a series of tests can be put together (weighted) which will better reflect expected LN performance (existing and new brands)

# Project Outline



**Thereafter lead by WHO (GMP & WHOPES)**



# Activities

- Sampling of nets (500-600 LN total)
  - From existing CDC/PMI studies (Kenya, Malawi, Mozambique)
  - From active sampling (Nigeria - NetWorks study; Cambodia)
  - From ongoing WHOPEs phase III studies
- Laboratory examination
  - Visual inspection
  - Microscopy
  - Others

## Activities (2)

- Data analysis
  - Textile testing data
  - Net use and handling data (household)
  - Environmental data
- Dissemination and Report
  - Make data base available online
  - Submit full report

## Expected Timing

- Grant and sub-contracts signed end 2012
- First net collections (CDC/PMI) under way
- Filed work to start March
- Phase 1 completed Oct 2013
- Decision (external consultation) if evidence sufficient to move to Phase 2 Oct/Nov 2013