



# Building NTD Capacity through Community-Wide Surveillance of STH & Schistosomiasis in Kenya



# STH & Schistosomiasis in Kenya: Overview



- School based deworming ongoing since 2009
- National impact survey estimated national prevalence among school-age children (SAC):
  - 13.5% for STH
  - 1.7% for *S. mansoni*
  - 2.4% for *S. hematobium*
- Breaking Transmission Strategy (BTS) established in 2019 to interrupt community-wide transmission of 4 NTDs
- Data gaps: Community-wide prevalence baseline, and sub-national data

# CWW implementing partners in Kenya

- Kenya Division of Vector Borne and Neglected Tropical Diseases
- Kenya Field Epidemiology Laboratory Training Program (K-FELTP)
- Kenya Red Cross Society
- AFENET
- County Public Health staff

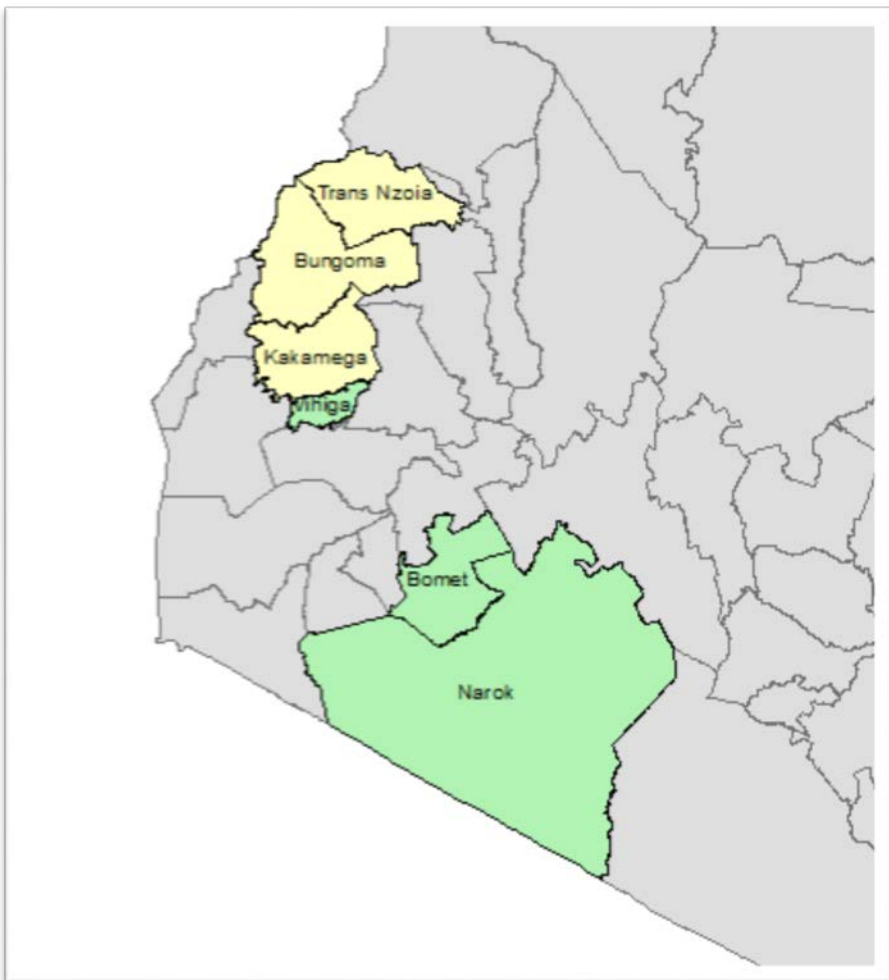


# CWW-MOH partnership goals

- Build capacity for NTD epidemiology and diagnostics at national and county levels
- Strengthen K-FELTP program in NTD data management and analysis for program actions



# M&E planning for the BTS



- Filling gaps for sub-national and community-wide epidemiological data:
  - Stool based surveys for STH & *S. mansoni* in Vihiga, Bomet, Narok counties
  - Stool & urine surveys for STH, *S. mansoni*, & *S. haematobium* in Kakamega, Bungoma, & Trans-Nzoia counties
    - Schisto-focused ward-level surveys in these counties



# CWW's ICSPM methodology

- **Integrated Community-based Survey for Program Monitoring**
- Impact evaluation at the community level
  - Pre-school aged children (PSAC), SAC, and Adults
  - WASH and other risk factors
- Multi-stage cluster sampling methodology
  - Powered to the district/county level
- Kato Katz for diagnostics
- Adaptable to different evaluation units and NTDs
- Part of CWW's global, comprehensive M&E framework



# CWW's ICSPM methodology (cont.)

- Villages as clusters – 30 selected using population proportional to estimated size
- Minimum sample of 332 in each group (PSAC, SAC, Adults)
- Oversampling for Schistosomiasis to address ecological factors



# Cascade training model for surveillance

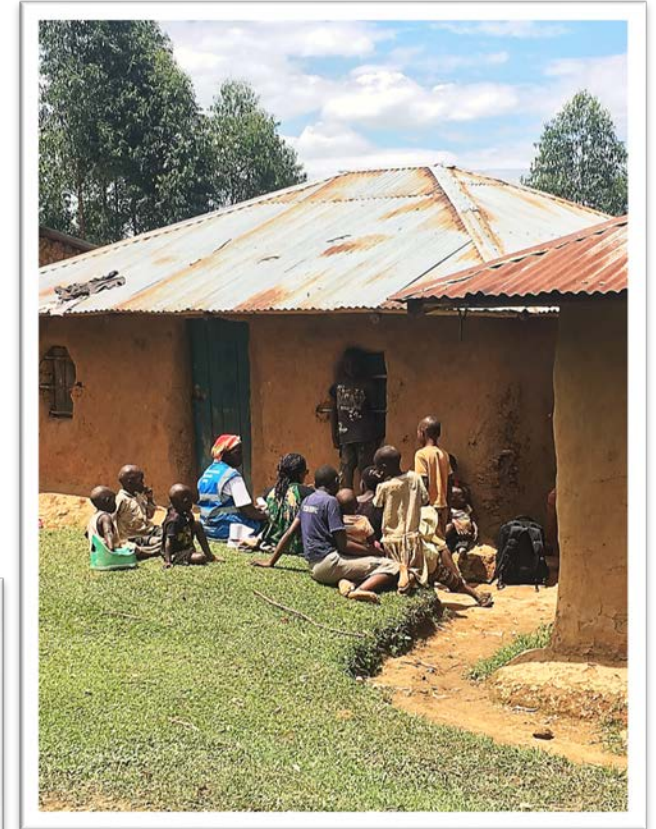
- 2 Kenya NTD Program staff were trained by CWW in Atlanta in 2019
- These staff facilitated trainings in Kenya at national and county levels
- 3 new staff who will lead the 2020 surveys were trained virtually in August





# ICSPM in the field

- County sensitization pre-survey & feedback post-survey
- National NTD program staff lead survey teams
  - Community Health Volunteers and County Public Health Officers as enumerators
- Capacity building among county laboratory technologists



# Preliminary results from Vihiga

Vihiga County STH Prevalence by Sub-County



- ICSPM results: 9.5% overall STH prevalence\*
  - 14.6% among PSAC;
  - 8.3% among SAC;
  - 4.3% among Adults;
  - Co-infection very low (<1%)
- National school-based survey results: 20-50% STH prevalence among SAC
  - Powered to national level

*\*preliminary data*





THANK YOU