# 8<sup>TH</sup> Regional Review Group Meeting of Preventive Chemotherapy NTDs

13th – 14th November 2023 The Grand Lancaster Hotel Brazzaville (Republic of the Congo)



Session 4b: Challenges affecting progress – Onchocerciasis and Lymphatic filariasis



# Welcome & Introduction of the Agenda for Day 2

### **Co-chairs**

Dr Elizabeth Osim Elhassan

Dr. (Mr.) Teshome Gebre Kanno, PhD, FASTMH





### 8<sup>th</sup> Regional Programme Review Group Meeting Objectives

- Introduce new members of the PC-NTD RPRG and apprise them of the terms of reference and standard operating procedures
- Provide an overview of regional progress towards global targets of elimination of PC NTDs
- Provide an overview of cross-cutting interventions to support implementation of PC-NTD interventions
- To identify solutions for specific challenges with 4 PC NTDs, encountered by endemic countries



### Agenda – Day 2

	Session 4b: Challenges affecting progress – Onchocerciasis and Lymphatic						
	filariasis						
	08:30 - 08:35	Welcome	Co-chairs				
	08:35 - 08:55	Onchocerciasis	Didier Bakajika				
	08:55 - 09:20	Lymphatic Filariasis	Didier Bakajika				
	09:20 - 10:20	Discussion and RPRG	RPRG				
		recommendations					
	10:20 - 10:40	Break					
	Session 5: Infor	mation session on cross-cutting activ	vities: Data				
	Management						
	10:40 - 11:40	ESPEN Portal, current country	ESPEN and Linksbridge				
		progress analytics,					
		Implementation Unit Planner and					
		RPRG data review tools					
	11:40 - 12:20	RPRG interaction with ESPEN	Jorge Cano				
		portal and discussions					
	12:20 - 12:40	Updates on NTD indicators on	ALMA				
		ALMA scorecard					
	12:40 - 12:45	Discussions					
	12:45 - 13:00	Group Photograph	ESPEN Secretariat				
	13:00 – 14:00 Lunch Break						
Afr	World Health Organization African Region						
	3						

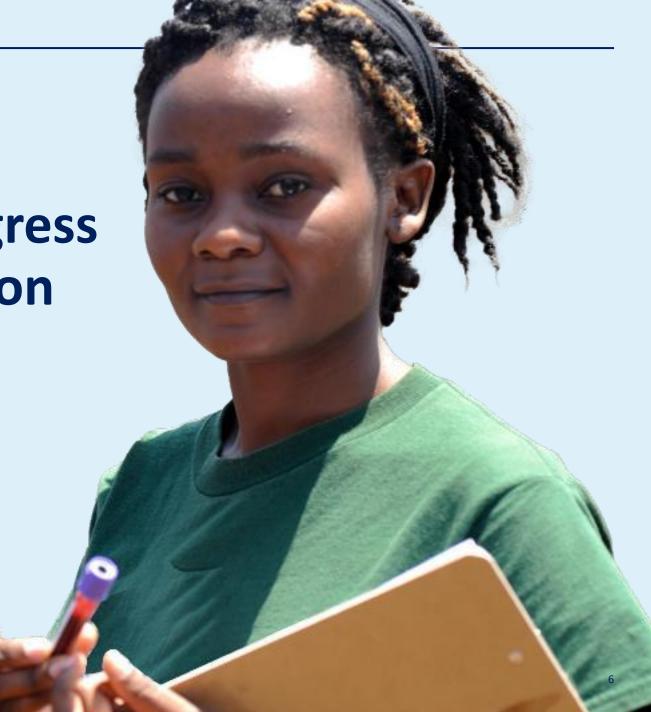
Session 6: Information session on cross-cutting activities: Programme						
implementatio	implementation planning					
14:00 - 14:20	Modelling to guide CEMA					
	programmatic decision making					
14:20 - 14:40	Supply Chain Management	Tuan, Le (WHO HQ)				
14:40 - 15:00	Discussions RPRG					
15:00 - 15:20	Break					
15:20 - 15:50	Summary of	Rapporteurs				
	recommendations and actions					
15:50 - 16:00	Meeting Evaluation – Online	ESPEN				
16:00 - 16:15	Vote of Thanks and Closing RPRG Co-Chairs					
	remarks	ESPEN				
16:15	Meeting Ends					

# Challenges affecting Onchocerciasis and Lymphatic filariasis progress in the WHO African region

Dr Didier Bakajika

Medical Officer LF/Onchocerciasis





# Onchocerciasis

African Region





World Health Organization

8

### **Onchocerciasis PC Implementation and Elimination Status in AFRO as of 2023**

MDA not started	MDA started but not at scale	MDA scaled to all endemic IUs	MDA stopped in at least one focus	Elimination of Transmission Verified
Gabon Kenya+ Rwanda <sup>+</sup> Zambia+ Mozambique	Angola CAR Eq. Guinea	Benin Burkina Faso Burundi Cameroon Chad Côte d'Ivoire Congo DR Congo Ghana Guinea Guinea Bissau Liberia Mali Malawi Sierra Leone South Sudan United Rep. of Tanzania	Ethiopia* Nigeria* Senegal* Uganda* Togo*	None ( <i>Niger – elimination</i> dossier under review)
5 (16%)	3 (10%)	17 (55%)	5 (16%)	0



<sup>+</sup>Not though to need MDA unless OEM identifies

\* PTS already started of completed in at least one focus as of now

### 2030 target and sub targets for Onchocerciasis

Indicator	2020	2023	2025	2030
Number of countries verified for Interruption of Transmission	4	5	8	12
Number of countries that stopped MDA for $\geq$ 1 focus	9	22	24	34
Number of countries that stopped MDA for $\geq 50$ % of the population	6	10	25	> 16
Number of countries that stopped MDA for 100% of the population	5	6	10	> 12



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3

1. Uncompleted mapping (Oncho Elimination mapping)

2. Co-endemicity with loasis in some settings (Angola, Cameroon, CAR, Congo Republic, DRC, Gabon, South Sudan)

- 3. Implementation of MDA but not at scale
- 4. Impact assessments due in some IUs but not conducted
- 5. Funding gaps



1. Uncompleted mapping (Onchocerciasis Elimination mapping surveys)

a. Formerly known hypo-endemic countries (Kenya, Mozambique, Rwanda, Zambia)

b. Formerly known hypo-endemic settings in endemic countries
 638 IVM naïve vs 523 IUs under LF MDA (1161 IUs with unknown status)



<ul> <li>First environmental model for onchocerciasis</li> <li>Developed by LBD team from the Institute of Health Metrics and Evaluation (IHME, University of Washington)</li> <li>15,455 records (1975 to 2017) of onchocerciasis presence collected from scientific literature + ESPEN data portal &amp; equal number of background points generated at a distance of 100km from presences and within areas of unknown endemicity status (based on 2017 ESPEN map)</li> <li>10 environmental covariates were used as predictors: AI, distance from rivers, urbanicity, daytime LST, precipitation, slope, elevation, EVI, tasseled cap brighteness &amp; wetness</li> </ul>	<ul> <li>ESPEN built up models with different parameterization and compare to IHME model</li> <li>Prevalence survey data (ESPEN) reclassified as presence (prevalence &gt; 0%, at least 1 positive case) and absence (prevalence = 0%).</li> <li>Background points were generated using different approaches: random selection in a buffer distance from presences, based on pre-defined surface range envelop (SRE), and around presences to account for geographical bias.</li> <li>Preselection of 8 environmental predictors over a suite of 26 predictors (using PCA).</li> </ul>					
	• Ensemble of multiple models constructed with different algorithms, including BRT, RF, GAM and GLM.					
	Only ensemble the models that provided a better fit					

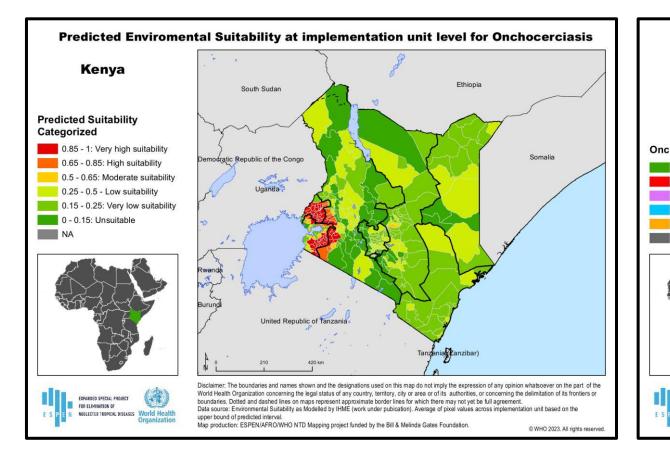


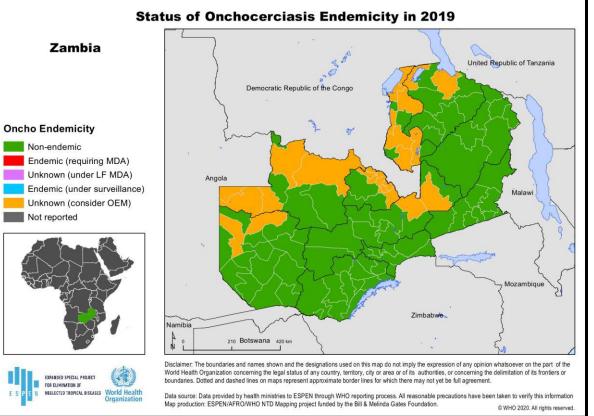
### Onchocerciasis – OEM & Environmental suitability

#### **Environmental suitability indicators:**

- The upper bound of the credible interval has been used so that we are taking a conservative approach for the limits of the environmental suitability
- The maximum, median and maximum values of the predicted suitability surface were estimated for every implementation unit.
- Area considered environmentally suitable: fraction of the implementation unit area covered by pixels classified as suitable for the transmission of onchocerciasis.
- The estimated median of predicted environmental suitability at IU level was re-classified in categories to ease its interpretation and utilization for OEM decision.
  - ▶ Median suitability up to 0.15: Unsuitable.
  - ▶ Median suitability >=0.15 to < 0.25: Very low suitability
  - ▶ Median suitability >=0.25 to < 0.50: Low suitability
  - P Median suitability >=0.50 to < 0.65: Moderate suitability</p>
  - ▶ Median suitability >=0.65 to < 0.85: *High suitability*
  - P Median suitability >=0.85: Very high suitability
- In addition, extracted the median and maximum values of predicted nodule prevalence (APOC) and mf prevalence (OCP) by IU









### Rwanda

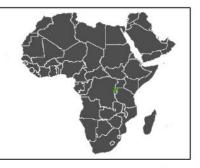
- MoH authorization in 2023 •
- Materials provided by ESPEN •
- Training in Kigali and in the field:
  - ✓ Human landing collection;
  - $\checkmark$  Prospection of river
  - ✓ Preparation of carnoy's fixative
  - ✓ Sorting of larvae in the Lab

### Rwanda

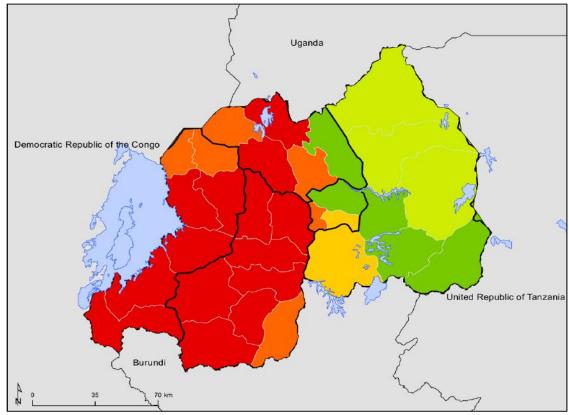
For IU reportedly non-endemic 0.85 - 1: Very high suitability 0.65 - 0.85: High suitability 0.5 - 0.65: Moderate suitability 0.25 - 0.5 - Low suitability 0.15 - 0.25: Very low suitability 0 - 0.15: Unsuitable NA

**Predicted Suitability** 

Categorized







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Map production: ESPEN/AFRO/WHO NTD Mapping project funded by the Bill & Melinda Gates Foundation.

Predicted Enviromental Suitability for IU considered non-endemic for onchocerciasis

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### Field works



Training of trainers

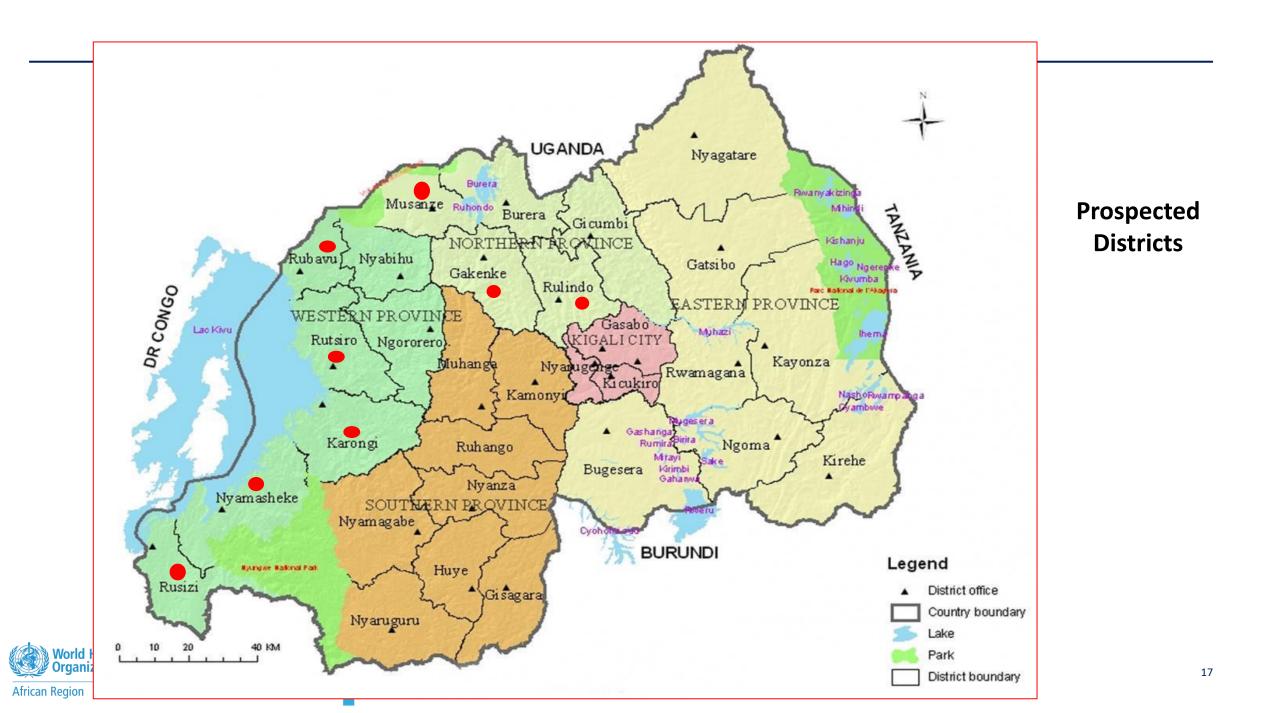
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Simulium damnosum s.l. breeding site

Sorting of larvae in the Lab in Kigali



### Preliminary results of the prospection

District	<pre># of potential breeding sites prospected</pre>	Breeding site positive for <i>S.damnosum</i>	comments
Rusizi	3	1	High biting rate
Nyamasheke	5	0	Simulium dentulosum
Karongi	2	0	Simulium dentulosum
Rutsiro	5	0	Simulium dentulosum
Rubavu	2	0	Simulium dentulosum
Musanze	1	0	Simulium dentulosum
Rulindo	2	0	Simulium dentulosum
Rulindo-Gakenke	1	0	Simulium dentulosum
	21	1	

#### Next steps

- Complete breeding sites assessment next year (rainy season)
- Baseline entomology assessment
- Epidemiology assessment



**PLOS NEGLECTED TROPICAL DISEASES** 

RESEARCH ARTICLE

Identification of the onchocerciasis vector in the Kakoi-Koda focus of the Democratic Republic of Congo

Rory J. Post<sup>1,2°</sup>, Anne Laudisoit<sup>3,4,5°</sup>, Michel Mandro<sup>6</sup>, Thomson Lakwo<sup>7</sup>, Christine Laemme<sup>4,9</sup>, Kenneth Pfar<sup>8,9</sup>, Achim Hoeraut<sup>6,9</sup>, Pablo Tortosa<sup>10</sup>, Yann Gomard<sup>10</sup>, Tony Ukety<sup>11</sup>, Claude Mande<sup>12,13</sup>, Lorne Farovitch<sup>14</sup>, Uche Amazigo<sup>15</sup>, Didler Bakajika<sup>16</sup>, David W. Oguttu<sup>7</sup>, Naomi Awaca<sup>17</sup>, Robert Colebunders<sup>6</sup>

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Check for updates

#### G OPEN ACCESS

Citation: Post RJ, Laudisoit A, Mandro M, Lakwo T, Laemmer C, Pfarr K, et al. (2022) Identification of the onchoceriasis vector in the Kakoi-Koda focus of the Democratic Republic of Congo. PLoS Negl Trop Dis 16(11): e0010684. <u>https://doi.org/</u> 10.1371/doima.otd.001084

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Data Availability Statement: All relevant data are within the manuscript and its <u>Supporting</u> <u>Information</u> files.

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These authors contributed equally to this work.
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Abstract

#### Background

The objective of this study was to characterise the vector in a small hyper-endemic focus of onchocerciasis (the Kakoi-Koda focus) which has recently been discovered on the western slopes of the rift valley above Lake Albert.

#### Methodology/Principal findings

Aquatic stages of blackflies were collected by hand from streams and rivers, and anthropophilic adult females were collected by human landing catches. Using a combination of morphotaxonomy and DNA barcoding, the blackflies collected biting humans within the focus were identified as *Simulium dentulosum* and *Simulium vorax*, which were also found breeding in local streams and rivers. *Simulium damnosum* s.l., *Simulium neavei* and *Simulium albivirgulatum* were not found (except for a single site in 2009 where crabs were carrying S. *neavei*). Anthropophilic specimens from the focus were screened for *Onchocerca* DNA using discriminant qualitative real-time triplex PCR. One specimen of *S. vorax* was positive

### Mozambique

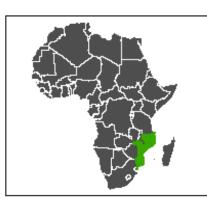
#### Onchocerciasis endemicity at community level based on nodule palpation (NP): Mapping Surveys

Mozambique

- Hypoendemic areas (REMO)
- Shares borders with oncho endemic IUs in Malawi
- New paradigm (EoT)
- OEM needed in some foci (Border with Malawi and Tanzania?)

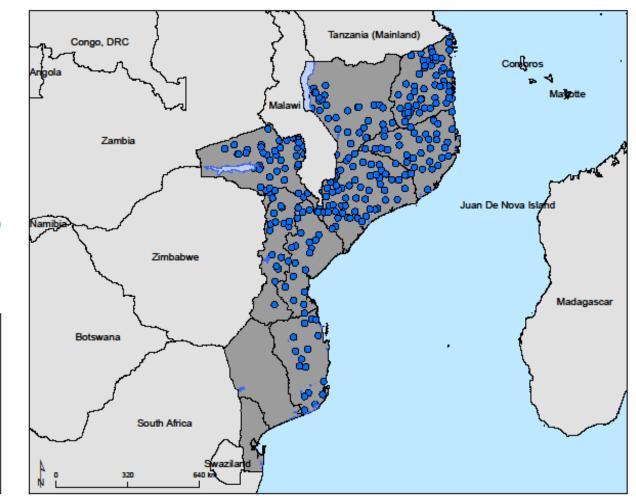
#### Onchocerciasis Mapping surveys (NP)

- Hyper-endemic (≥40%)
- Meso-endemic (20%-39.9%)
- Hypo-endemic (0-19.9%)



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#### Data source: Health Ministries & ESPEN partnership

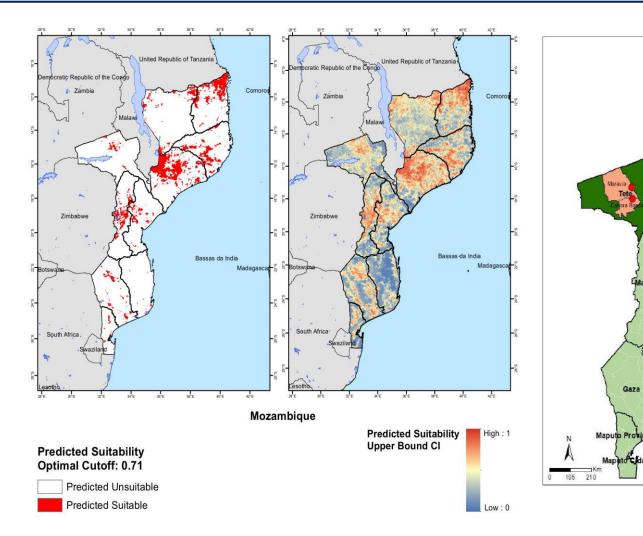
Map production: ESPEN/AFROWHO NTD Mapping project funded by the Bill & Melinda Gates Foundation.

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### Mozambique

- Financial and technical support • (SSI)
- ESPEN collect (ESPEN)
- 7 districts mapped in 3 provinces





Cabo Delgado

Nampula

Pontos de Colheitas Distritos Visitados

Provincias Visitadas

Outros Distritos

Sofala

Inhambane

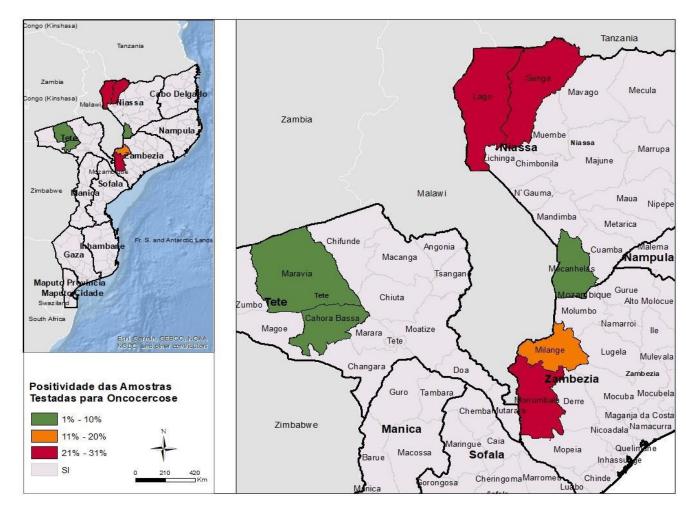
Gaza

fcldad

### **OEM Results**

IU name	n (%)
Cahora- Bassa	4 (1.2)
Lago	86 (25.7)
Maravia	5 (1.5)
Mecanhelas	3 (0.9)
Milange	45 (14.1)
Morrumbala	86 (25.7)
Sanga	103 (30.8)

- Ov16 lgG4 ELISA SD
- Scale up OEM in suspected areas





1. Uncompleted mapping (Onchocerciasis Elimination mapping surveys)

a. Formerly known hypo-endemic countries (Kenya, Mozambique, Rwanda, Zambia)

b. Formerly known hypo-endemic settings in endemic countries
 638 IUs IVM naïve vs 523 IUs under LF MDA (1161 IUs with unknown status)



- 1. Uncompleted mapping (OEM surveys)
- Formerly known hypo-endemic settings in endemic countries
   638 IUs IVM naïve (Classic OEM)
   523 IUs under LF MDA (iTAS)



Report on the fourth meeting of the WHO Onchocerciasis Technical Advisory Subgroup

Virtual meeting, 28-29 October 2020





2. Oncho and Loasis co-endemicity in some settings (Angola, Cameroon, CAR, Congo Republic, DRC, Gabon, South Sudan)

- ✓ IVM MDA in Loa and oncho (Meso & hyper)
- ✓ No IVM MDA in loa and oncho ( hypoendemic)

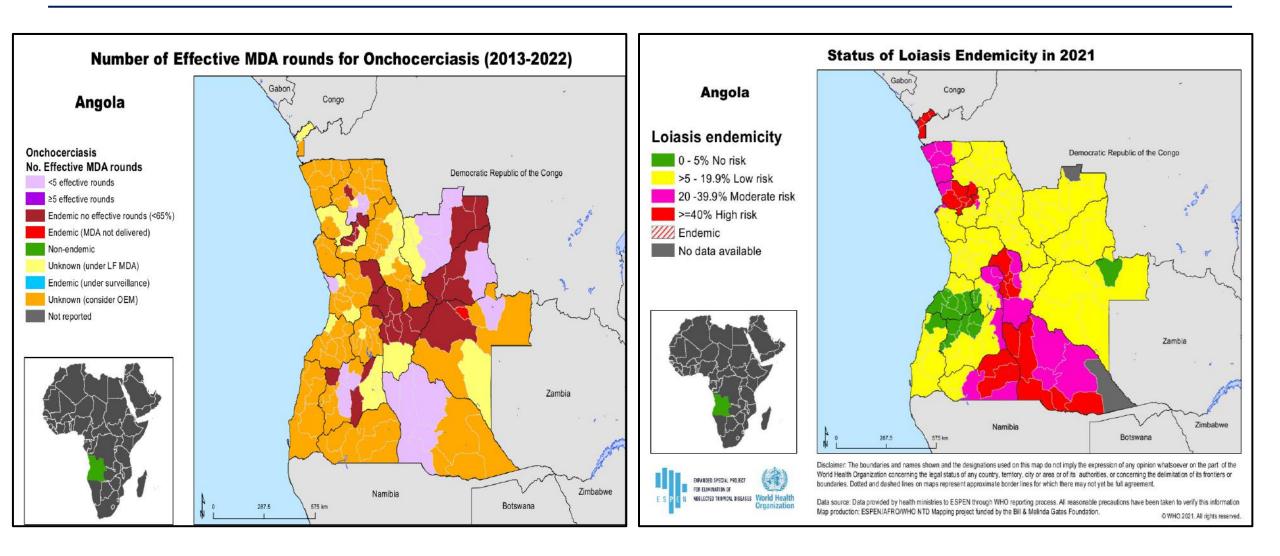
Test and treat

Test and no Treat

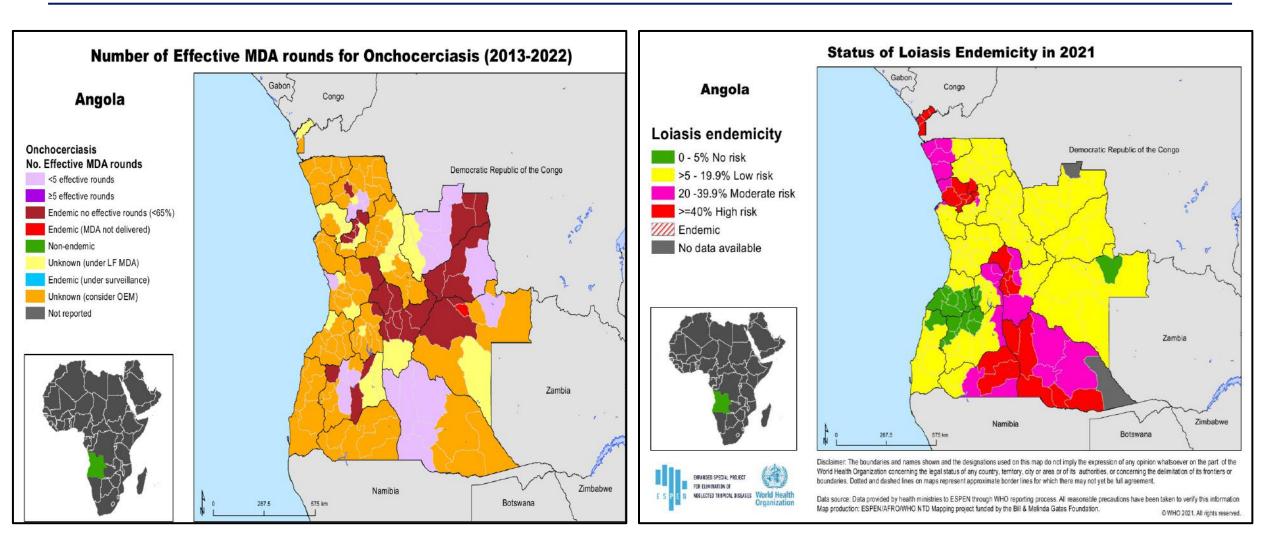


June 2004
Recommendations for the treatment of Onchocerciasis with Mectizan® in areas co-endemic for Onchocerciasis and Loiasis
The Mectizan® Expert Committee and The Technical Consultative Committee

The Mectizan® Expert Committee The Mectizan® Donation Program 750 Commerce Drive, Suite 400 Decatur, Georgia 30030 USA TEL: +1-404-371-1460 FAX: +1-404-371-1138 Email: <u>mectizan@taskforce.org</u>







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### Test and not treat strategy

26

1. Uncompleted mapping (Oncho Elimination mapping)

2. Oncho and Loasis co-endemicity in some settings (Angola, Cameroon, CAR, Congo Republic, DRC, Gabon, South Sudan)

### 3. Implementation of MDA but not at scale (Angola, CAR, Eq Guinea)

• Impact assessments due in some IUs but not conducted



### **Onchocerciasis PC Implementation and Elimination Status in AFRO as of 2023**

MDA not started	MDA started but not at scale	MDA scaled to all endemic IUs	MDA stopped in at least one focus	Elimination of Transmission Verified
Gabon Kenya+ Rwanda <sup>+</sup> Zambia+ Mozambique	Angola CAR Eq. Guinea	Benin Burkina Faso Burundi Cameroon Chad Côte d'Ivoire Congo DR Congo Ghana Guinea Guinea Bissau Liberia Mali Malawi Sierra Leone South Sudan United Rep. of Tanzania	Ethiopia* Nigeria* Senegal* Uganda* Togo*	None ( <i>Niger – elimination</i> dossier under review)
5 (16%)	3 (10%)	17 (55%)	5 (16%)	0



<sup>+</sup>Not though to need MDA unless OEM identifies

\* PTS already started of completed in at least one focus as of now

### Contributing factors and proposed actions needed (Angola)

- Poor political will
- Turnover of staff /limited technical expertise
- No oncho/NTD working group
- Limited resources (Mentor Initiative/END Fund only)

- High level advocacy
- Establish a working group
- Ressource mobilisation



### Contributing factors and proposed actions needed(CAR)

- Poor political will
- Political instability/crisis in CAR
- Turnover of staff /poor technical expertise
- No WHO/NPO to provide needed technical supports to the MoH
- Limited resources (No MDA in 2021)

- High level advocacy
- NTD working group highly needed
- Ressource mobilisation
- Scale up MDA using agencies working in hard-to- reach settings (Red Cross, MSF)



### Proposed actions (Eq. Guinea)

- High level advocacy
- NTD working group highly needed
- Interventions/actions needed :
  - ✓ Conduct Oncho (OEM) in the mainland
  - ✓ PTS survey ( entomology) in Bioko to confirm EoT 7 years after STOP MDA ( Long hanging fruit if no oncho in the mainland).

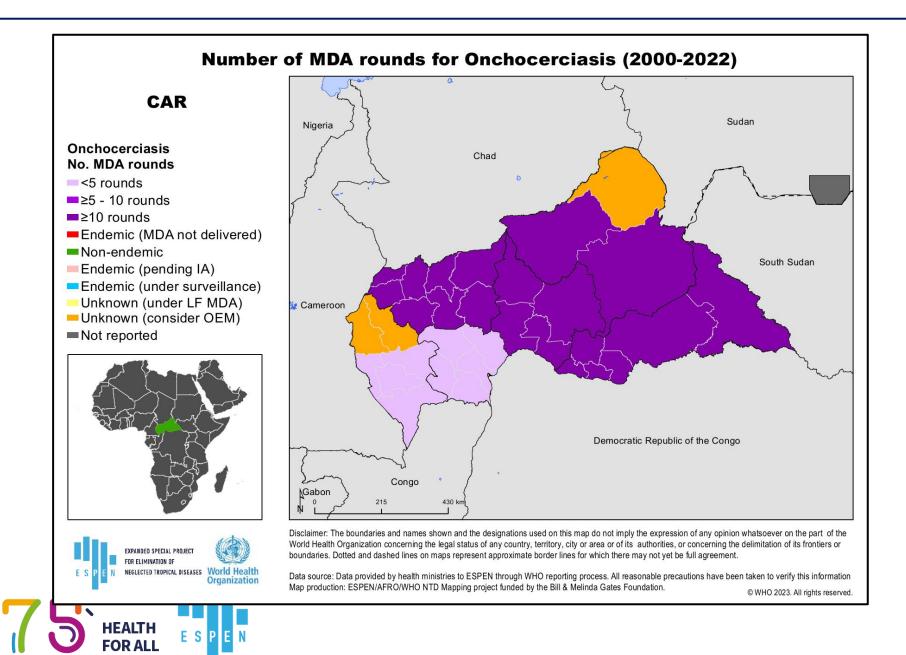


1. Uncompleted mapping (Oncho Elimination mapping)

2. Oncho and Loasis co-endemicity in some settings (Angola, Cameroon, CAR, Congo Republic, DRC, Gabon, South Sudan)

- 3. Implementation of MDA but not at scale
- 4. Impact assessments due in some IUs but not conducted
- 5. Funding gaps



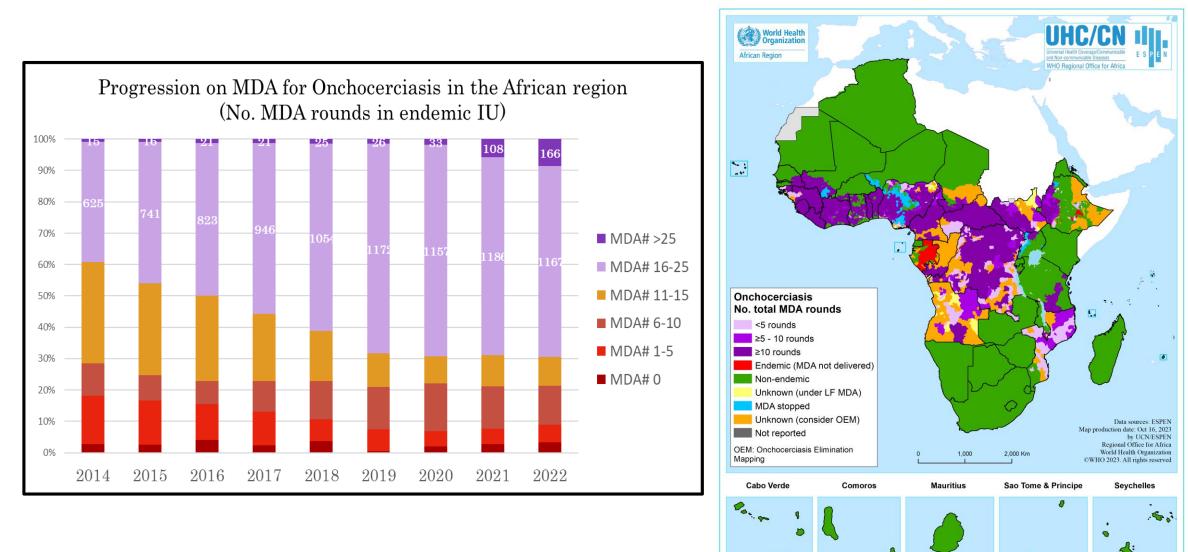


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33

### Impact assessment due but not conducted





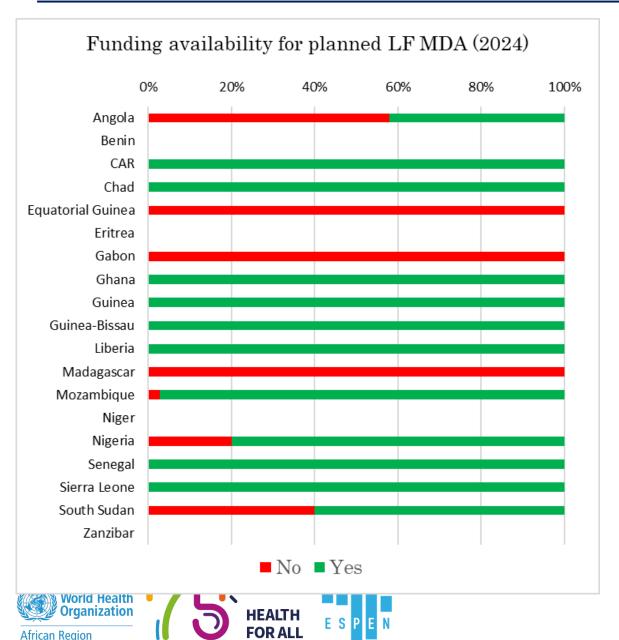
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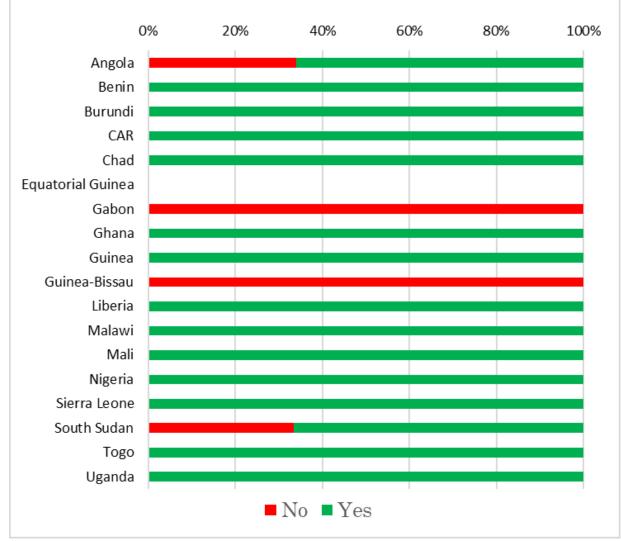
- 3. Implementation of MDA but not at scale
- 4. Impact assessments due in some IUs but not conducted
- 5. Funding gaps



### Reported funding gaps for 2024 (MDA & Surveys)



Funding availability for planned Oncho MDA (2024)



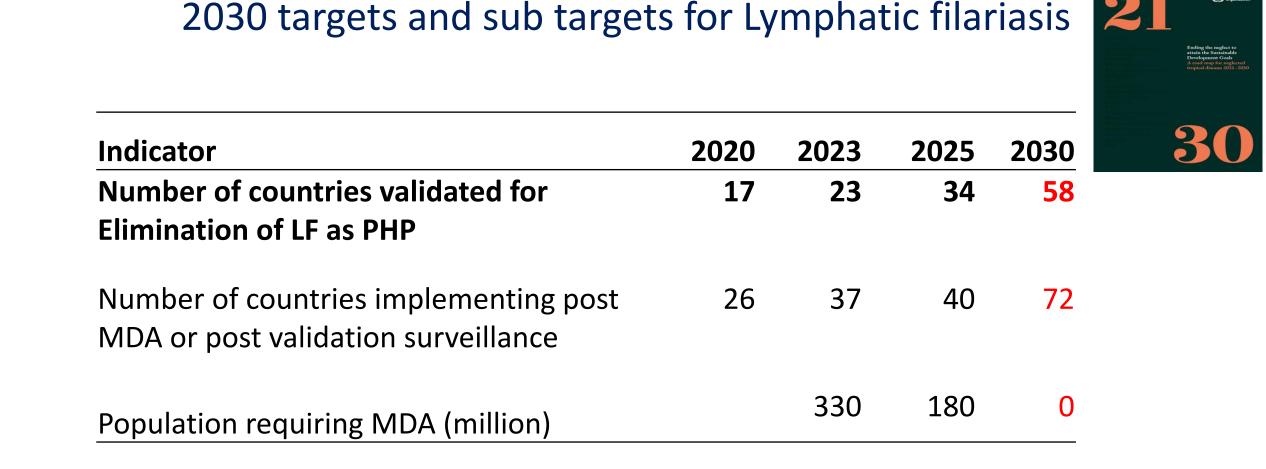
# Reported funding gaps for 2024 (MDA & Surveys)

	Lym	phatic filar	iasis	0	nchocercias	is		STH	•	Sc	histosomia	sis
Country	No. Partners	No. IU MDA	Funding gap MDA (%)									
Angola	2	38	58%	1	47	34%	1	91	38%	1	124	29%
Benin	1	0	N/R	2	51	0%	1	31	0%	1	71	0%
Burundi	0	0	N/R	1	12	0%	3	48	0%	2	18	0%
CAR	2	32	0%	2	20	0%	2	19	0%	2	27	0%
Chad	1	25	0%	1	45	0%	1	9	0%	1	57	0%
Equatorial Guinea	0	15	100%	0	0	N/R	0	18	100%	1	2	100%
Eritrea	0	0	N/R	0	0	N/R	0	0	N/R	0	5	100%
Eswatini	0	0	N/R	0	0	N/R	0	3	100%	0	44	100%
Gabon	0	18	100%	0	27	100%	0	47	100%	0	14	100%
Ghana	1	7	0%	1	138	0%	0	0	0%	1	155	0%
Guinea	1	13	0%	1	24	0%	1	17	0%	1	21	0%
Guinea-Bissau	1	65	0%	1	33	100%	1	70	0%	1	24	0%
Liberia	1	4	0%	1	15	0%	1	9	44%	0	8	100%
Madagascar	0	77	100%	0	0	N/R	1	69	0%	1	87	0%
Malawi	0	0	N/R	1	10	0%	1	11	0%	1	28	0%
Mali	0	0	N/R	4	20	0%	0	0	N/R	4	61	0%
Mozambique	1	36	3%	0	0	N/R	1	143	76%	0	153	100%
Niger	1	0	N/R	0	0	N/R	1	1	100%	1	38	53%
Nigeria	2	95	20%	2	391	0%	2	414	8%	2	573	0%
Sao Tome & Principe	0	0	N/R	0	0	N/R	0	7	100%	0	2	100%
Senegal	1	3	0%	0	0	N/R	1	12	0%	1	53	0%
Sierra Leone	2	1	0%	2	14	0%	2	16	0%	2	10	0%
South Sudan	1	50	40%	1	48	33%	1	6	50%	0	38	100%
Tanzania (Zanzibar)	1	11	0%	0	0	N/R	1	11	0%	1	9	0%
The Gambia	0	0	N/R	0	0	N/R	0	4	100%	0	37	100%
Togo	0	0	N/R	1	32	0%	1	38	0%	1	37	0%
Uganda	0	0	N/R	1	12	0%	1	146	0%	0	92	100%
Total		490	35%		939	10%		1240	21%		1788	25%
World Health Organization	5 HEAI FOR		EN									

# Reported funding gaps for 2024 (MDA & Surveys)

	Lym	phatic fil	ariasis	0	nchocerc	asis		STH	-	Sc	histosom	iasis
Country	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)
Benin	1	4	0%	2	5	0%	1	17	0%	1	43	0%
CAR	2	0	N/R	2	20	0%	2	0	N/R	2	0	N/R
Chad	1	11	100%	1	0	N/R	1	0	N/R	1	0	N/R
Equatorial Guinea	0	0	N/R	0	14	100%	0	0	N/R	1	16	0%
Eritrea	0	3	100%	0	0	N/R	0	0	N/R	0	5	100%
Ghana	1	8	0%	1	81	38%	0	0	N/R	1	34	0%
Guinea	1	16	0%	1	15	100%	1	7	100%	1	12	100%
Guinea-Bissau	1	29	0%	1	19	0%	1	0	N/R	1	0	N/R
Liberia	1	9	0%	1	15	0%	1	15	100%	0	15	100%
Madagascar	0	17	100%	0	0	N/R	1	0	N/R	1	0	N/R
Malawi	0	0	N/R	1	8	0%	1	11	0%	1	0	N/R
Niger	1	48	100%	0	0	N/R	1	13	0%	1	13	0%
Nigeria	2	1	0%	2	1	100%	2	0	N/R	2	0	N/R
Sao Tome & Principe	0	0	N/R	0	0	N/R	0	7	100%	0	7	100%
Senegal	1	7	0%	0	0	N/R	1	11	0%	1	11	0%
Sierra Leone	2	8	0%	2	14	0%	2	16	0%	2	7	0%
South Sudan	1	11	0%	1	0	N/R	1	0	N/R	0	0	N/R
Tanzania (Zanzibar)	1	11	0%	0	0	N/R	1	11	0%	1	1	0%
The Gambia	0	0	N/R	0	0	N/R	0	44	100%	0	44	100%
Togo	0	0	N/R	1	7	0%	1	15	0%	1	15	0%
Uganda	0	0	N/R	1	0	N/R	1	5	0%	0	0	N/R
Total		183	43%		199	31%		172	42%		223	37%
World Health Organization African Region	HEAL FOR A		PEN									







( World Heal

### Lymphatic filariasis PC and Elimination Status in AFRO as of 2023

MDA not started	MDA started but not at scale	MDA scaled to all endemic IUs	MDA stopped in at least one focus	Elimination as Public Health Problem
Gabon	Angola Central African Republic Madagascar	Chad Equatorial Guinea Guinea Guinea Bissau Liberia Sierra Leone South Sudan Zambia Zimbabwe	Benin Burkina Faso Cameroon Comoros Côte d'Ivoire Congo DR Congo Ethiopia Eritrea Ghana Kenya Mali Mozambique Niger Nigeria Senegal Sao Tome and Principe	Togo (2017) Malawi (2020)
1 (3%)	3 (9%)	9(26%)	United Rep. of Tanzania Uganda	2 (6%)
			19 (56%)	



1. Uncompleted mapping (LF confirmatory mapping)

2. Implementation of MDA but not at scale

3. Poor implementation of MMDP activities

4. Funding gaps



• Confirmation of LF endemicity in Gabon:

17 districts with at least one FTS+

Country known to have loasis.

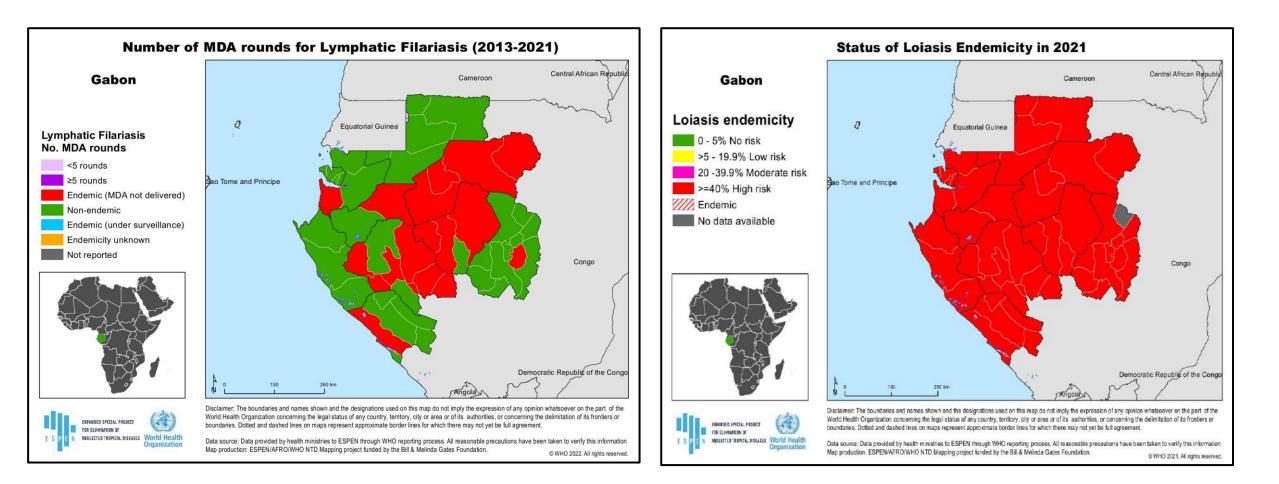
Cross reaction between Wuchereria bancrofti and Loa loa.

Onchocerciasis known to have hypo-endemic IUs (REMO).

Question: Can we advise the program to conduct integrated LF and Oncho mapping surveys?



### Gabon



LF Confirmatory mapping highly needed in 17 IUs/Loasis coendemic



1. Uncompleted mapping (LF confirmatory mapping)

### 2. Implementation of MDA but not at scale

### 3. Poor implementation of MMDP activities.

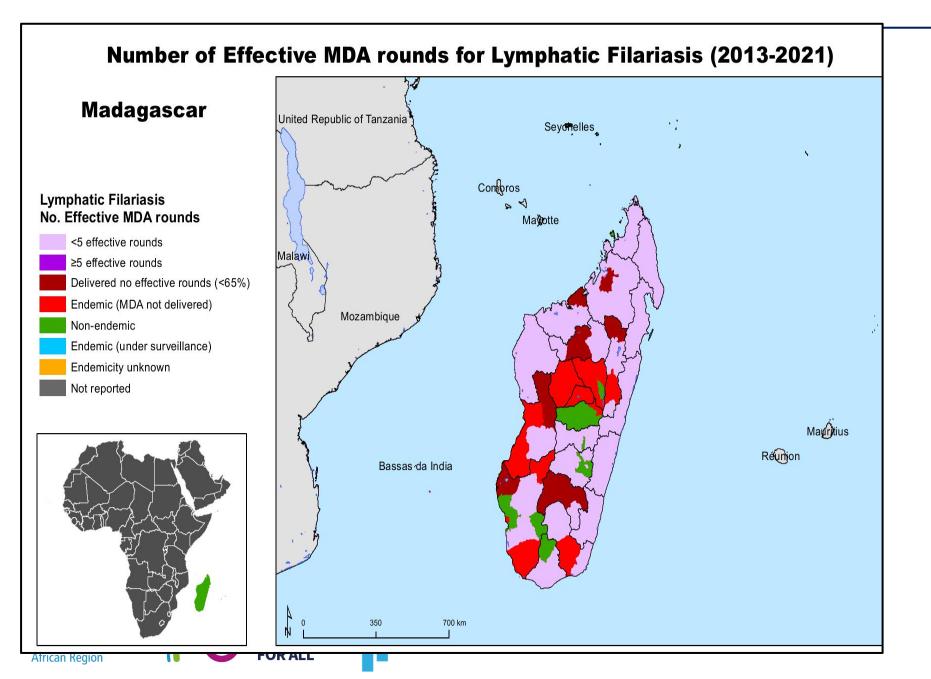
### 4. Funding gaps



### Lymphatic filariasis PC and Elimination Status in AFRO as of 2023

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Gabon	Angola Central African Republic Madagascar	Chad Equatorial Guinea Guinea Guinea Bissau Liberia Sierra Leone South Sudan Zambia Zimbabwe	Benin Burkina Faso Cameroon Comoros Côte d'Ivoire Congo DR Congo Ethiopia Eritrea Ghana Kenya Mali Mozambique Niger Nigeria Senegal Sao Tome and Principe	Togo (2017) Malawi (2020)
1 (3%)	3 (9%)	9(26%)	United Rep. of Tanzania Uganda	2 (6%)
			19 (56%)	





- 86 LF endemic districts
- 4 stopped MDA (TAS2/3)
- Low MDA coverage

### Contributing factors and needed interventions/actions needed (MAD)

۲

- Poor political will ( Before)
- Climate (Cyclones from March to June)
- Several plaque outbreaks
- Turnover of staff /poor technical expertise at MoH
- Communities' fatigue (MDA since 2004)
- Limited resources

• Consultant to support the NPO (Planning and implementation of interventions)

Maintain the **current** political will

- Technical actions needed :
  - ✓ Mini-TAS to assess progress and then TAS
  - ✓ Improve MDA coverage
  - ✓ Scale up MDA using IDA
  - ✓ Scale up MMDP

48



1. Uncompleted mapping (LF confirmatory mapping)

2. Implementation of MDA but not at scale

3. Poor implementation of MMDP activities

4. Funding gaps



1. Uncompleted mapping (LF confirmatory mapping)

2. Implementation of MDA but not at scale

3. Poor implementation of MMDP activities

### 4. Funding gaps



# Reported funding gaps for 2024 (MDA & Surveys)

	Lym	phatic filar	iasis	0	nchocercias	is		STH	·	Sc	histosomias	sis
Country	No. Partners	No. IU MDA	Funding gap MDA (%)									
Angola	2	38	58%	1	47	34%	1	91	38%	1	124	29%
Benin	1	0	N/R	2	51	0%	1	31	0%	1	71	0%
Burundi	0	0	N/R	1	12	0%	3	48	0%	2	18	0%
CAR	2	32	0%	2	20	0%	2	19	0%	2	27	0%
Chad	1	25	0%	1	45	0%	1	9	0%	1	57	0%
Equatorial Guinea	0	15	100%	0	0	N/R	0	18	100%	1	2	100%
Eritrea	0	0	N/R	0	0	N/R	0	0	N/R	0	5	100%
Eswatini	0	0	N/R	0	0	N/R	0	3	100%	0	44	100%
Gabon	0	18	100%	0	27	100%	0	47	100%	0	14	100%
Ghana	1	7	0%	1	138	0%	0	0	0%	1	155	0%
Guinea	1	13	0%	1	24	0%	1	17	0%	1	21	0%
Guinea-Bissau	1	65	0%	1	33	100%	1	70	0%	1	24	0%
Liberia	1	4	0%	1	15	0%	1	9	44%	0	8	100%
Madagascar	0	77	100%	0	0	N/R	1	69	0%	1	87	0%
Malawi	0	0	N/R	1	10	0%	1	11	0%	1	28	0%
Mali	0	0	N/R	4	20	0%	0	0	N/R	4	61	0%
Mozambique	1	36	3%	0	0	N/R	1	143	76%	0	153	100%
Niger	1	0	N/R	0	0	N/R	1	1	100%	1	38	53%
Nigeria	2	95	20%	2	391	0%	2	414	8%	2	573	0%
Sao Tome & Principe	0	0	N/R	0	0	N/R	0	7	100%	0	2	100%
Senegal	1	3	0%	0	0	N/R	1	12	0%	1	53	0%
Sierra Leone	2	1	0%	2	14	0%	2	16	0%	2	10	0%
South Sudan	1	50	40%	1	48	33%	1	6	50%	0	38	100%
Tanzania (Zanzibar)	1	11	0%	0	0	N/R	1	11	0%	1	9	0%
The Gambia	0	0	N/R	0	0	N/R	0	4	100%	0	37	100%
Togo	0	0	N/R	1	32	0%	1	38	0%	1	37	0%
Uganda	0	0	N/R	1	12	0%	1	146	0%	0	92	100%
Total		490	35%		939	10%		1240	21%		1788	25%
World Health Organization frican Region	5 HEAI		EN									

# Reported funding gaps for 2024 (MDA & Surveys)

	Lym	phatic fil	ariasis	0	nchocerc	asis		STH	-	Sc	histosom	iasis
Country	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)	No. Partners	No. IU M&E	No funding for M&E (%)
Benin	1	4	0%	2	5	0%	1	17	0%	1	43	0%
CAR	2	0	N/R	2	20	0%	2	0	N/R	2	0	N/R
Chad	1	11	100%	1	0	N/R	1	0	N/R	1	0	N/R
Equatorial Guinea	0	0	N/R	0	14	100%	0	0	N/R	1	16	0%
Eritrea	0	3	100%	0	0	N/R	0	0	N/R	0	5	100%
Ghana	1	8	0%	1	81	38%	0	0	N/R	1	34	0%
Guinea	1	16	0%	1	15	100%	1	7	100%	1	12	100%
Guinea-Bissau	1	29	0%	1	19	0%	1	0	N/R	1	0	N/R
Liberia	1	9	0%	1	15	0%	1	15	100%	0	15	100%
Madagascar	0	17	100%	0	0	N/R	1	0	N/R	1	0	N/R
Malawi	0	0	N/R	1	8	0%	1	11	0%	1	0	N/R
Niger	1	48	100%	0	0	N/R	1	13	0%	1	13	0%
Nigeria	2	1	0%	2	1	100%	2	0	N/R	2	0	N/R
Sao Tome & Principe	0	0	N/R	0	0	N/R	0	7	100%	0	7	100%
Senegal	1	7	0%	0	0	N/R	1	11	0%	1	11	0%
Sierra Leone	2	8	0%	2	14	0%	2	16	0%	2	7	0%
South Sudan	1	11	0%	1	0	N/R	1	0	N/R	0	0	N/R
Tanzania (Zanzibar)	1	11	0%	0	0	N/R	1	11	0%	1	1	0%
The Gambia	0	0	N/R	0	0	N/R	0	44	100%	0	44	100%
Togo	0	0	N/R	1	7	0%	1	15	0%	1	15	0%
Uganda	0	0	N/R	1	0	N/R	1	5	0%	0	0	N/R
Total		183	43%		199	31%		172	42%		223	37%
World Health Organization African Region	HEAL FOR A		PEN									

# Thank you

For more information, please contact:

Dr Didier Bakajika Medical Officer LF/Onchocerciasis

bakajikad@who.int



# LF & Onchocerciasis

# Discussion and RPRG recommendations





# Health Break (20 min)



# Session 5: Information session on cross-cutting activities: Data Management



# Data review tools

# ESPEN Portal, Country Progress Analytics & other resources





### 1. ESPEN NTD Portal

- 2.1 History
- 2.2 Main Features and tools for decision making
- 2. ESPEN Dashboards: progress and forecast analytics
- 3. Tools for data collection & reporting
- 4. Ongoing Developments
- 5. Country Progress Analytics: tailored dataset for RPRG consultation
- 6. Operationalizing PC-NTD RPRG members' support

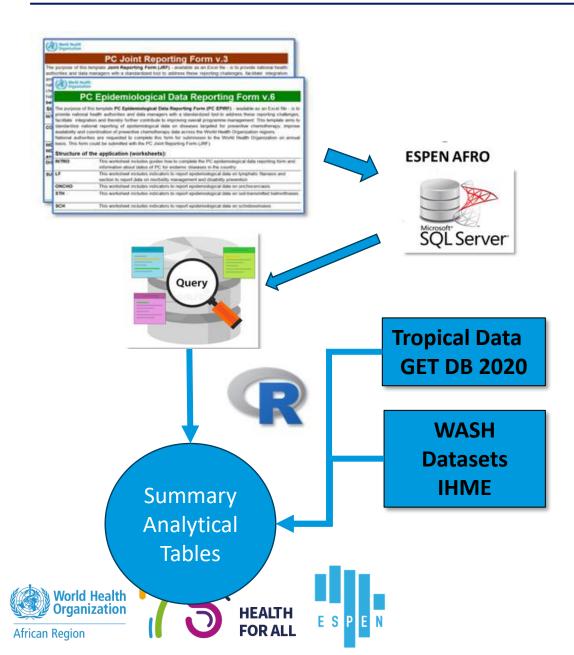


# ESPEN NTD Portal:

History & Functionalities



# ESPEN NTD Portal - https://espen.afro.who.int/

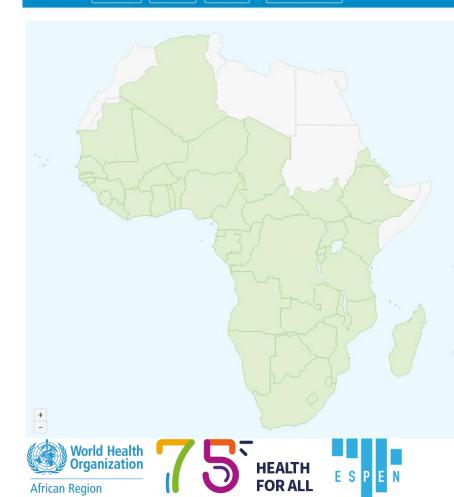


- NTD Data Portal launched by ESPEN in April 2017.
- Aims to be top public NTD data hub.
- **Compiles PC-NTD data** from countries using **JAP** & TEMF reports.
- Helps guide NTD control and elimination strategies.
- Not just data storage:
  - **ESPEN Collect** for data collection.
  - JAP Upload tool for data reporting.
  - **Tools** for data visualization: graphs, dashboards, maps.
  - Includes NTD Master Plans, Updated Cartography, Elimination estimates.
- Offers APIs for external app development.

# ESPEN Data Portal – v1.0 (2017)



#### Find maps by COUNTRY DISEASE SEARCH or DOWNLOAD DATA



World Health Organization

RESOURCES ABOUT

The ESPEN Portal is an electronic platform designed to enable health ministries and stakeholders to share, and exchange subnational programme data, in support of the NTD control and elimination goals.

#### 4403

#### **Quick jump**

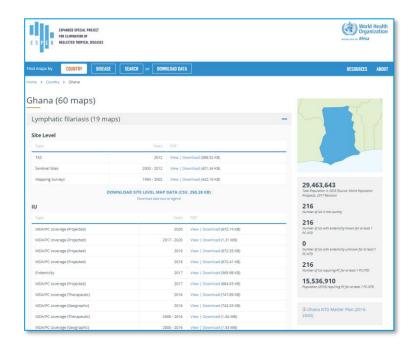
Type or select

#### Browse maps by disease

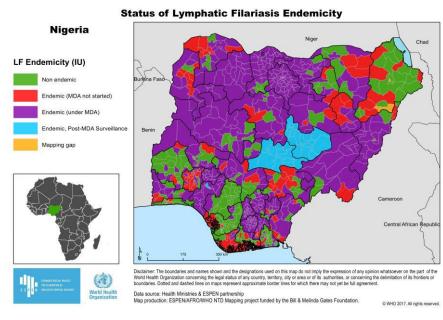
Lymphatic filariasis (801 maps) Onchocerciasis (694 maps) Loiasis (64 maps) Schistosomiasis (1284 maps) Soil-transmitted helminthiasis (1330 maps) Trachoma (138 maps) Coendemicity (92 maps)

#### Portal v 1.0

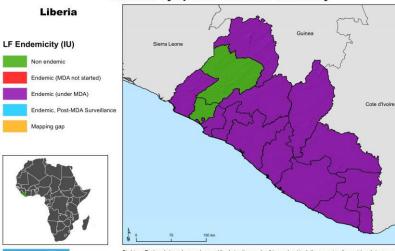
- First version: endemicity maps and data for each of the PC-NTDs.
- There were no data on programme implementation (e.g. populations targeted and treated)
- Maps were available for 43 countries



# ESPEN Data Portal – v1.0 (2017)



#### Status of Lymphatic Filariasis Endemicity



**FURALL** 

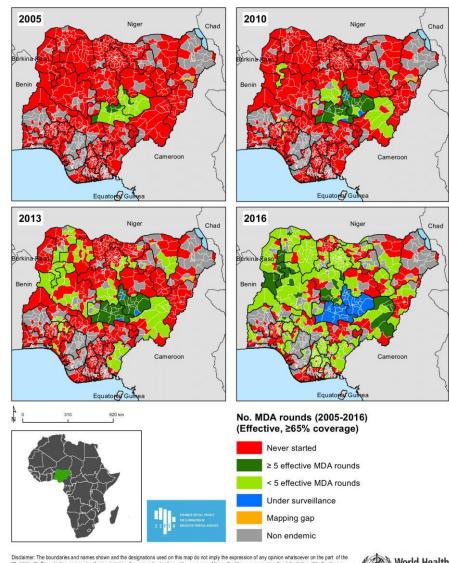
African Region

Vorld Health

Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatoever on the part of the World Health Organization concerning the legal status of any country, tentrary, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on mags represent approximate border lines for which there may not yet be full agreement. Data source: Health Ministries & ESPEN partnership

Map production: ESPEN/AFRO/WHO NTD Mapping project funded by the Bill & Melinda Gates Foundation.

#### Status of Lymphatic Filariasis MDA (2005-2016) - Nigeria



Disdaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinon whatsever on the part of the Work Health Organization concerning the legislatus of any country, territory, dry or area or of its saturbrinties, or comerring the delimitation of its frontiers or boundaries. Dicted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. Data source: Health Ministries & SEPEN partnership World Health Organization

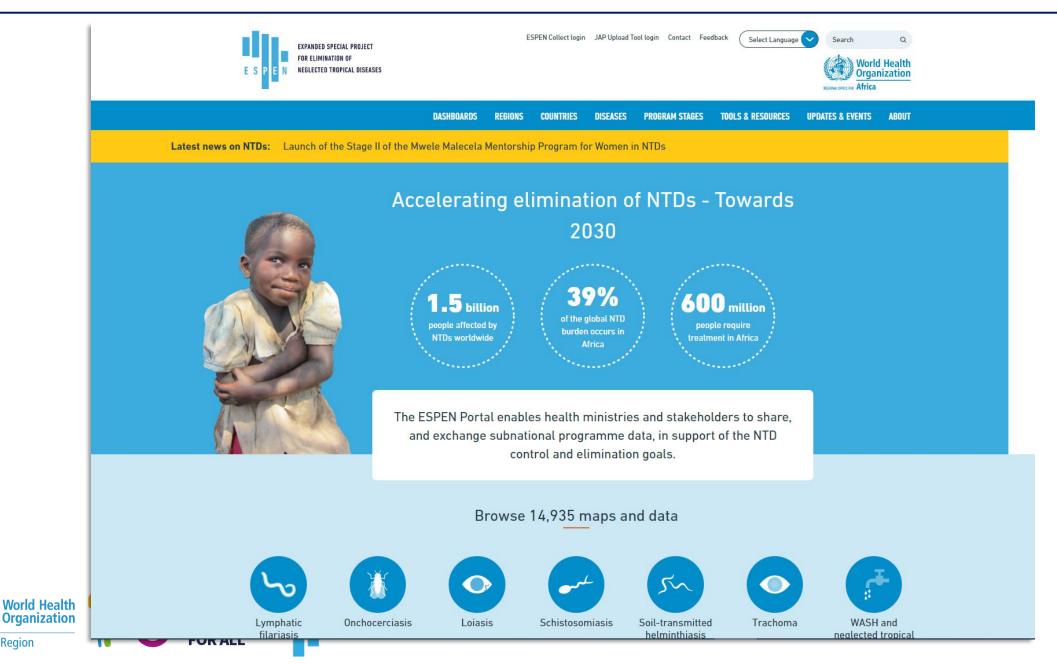
Map production: ESPEN/AFRO/WHO NTD Mapping project funded by the Bill & Melinda Gates Foundation.



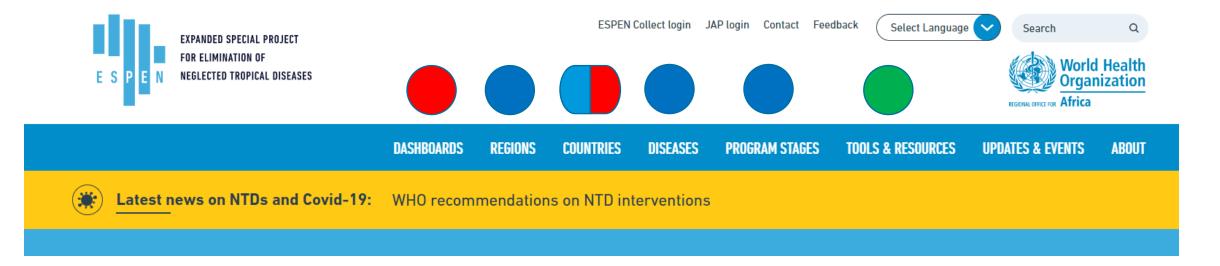
# ESPEN Data Portal – v3.0 (2022)

African Region

#### https://espen.afro.who.int/



# ESPEN Data Portal: Interface



Dynamic dashboards: visualization treatment progress and projections



Summary indicators & maps: key treatment and endemicity indicators, dynamic and static maps, and progress charts



Dashboards, Summary indicators & maps: key treatment and endemicity indicators, dynamic and static maps, and interactive dashboards



**Other resources:** data & map query tools, JAP Upload tool, IU level Cartography, ESPEN Collect, access to APIs library, etc

# Regional level statistics

#### https://espen.afro.who.int/

#### Western Africa

LF	ONC	LOA	SCH	STH STH	TH	WASH			
		y statistic	s for	2020	0				
ograph	nics								
	1,863			378,475,6	627		59,684,245		
Number of implementation units (IUs)			Total Popu	lation		Total	Total PreSAC Population		
110,062,025									
110	,062,025			212,187.6	622		14		

#### Program status

0	0	260,904,819	<b>1504</b>	90,994,803	<b>325</b>	
people	IUs	people	IUs	people	IUs	
Population living in IUs with endemicity unknown for at least one PC-NTD		Population requiring PC one PC-NTD	for at least	Population living in IUs that have stopped PC for at least one PC-NTD		

#### Delivery of PC in 2020\*

183,264,782	1190	161,426,434	<b>1190</b>	426 IUs (28% of all
people	IUs	people	IUs	endemic IUs)
Population targeted with least one NTD	n PC for at	Population treated with least one NTD	PC for at	IUs achieving effective coverage for all NTDs requiring PCs

\*These statistics exclude trachoma, as data are currently reporting using alternative implementation unit information, making integration unfeasible

#### Trachoma

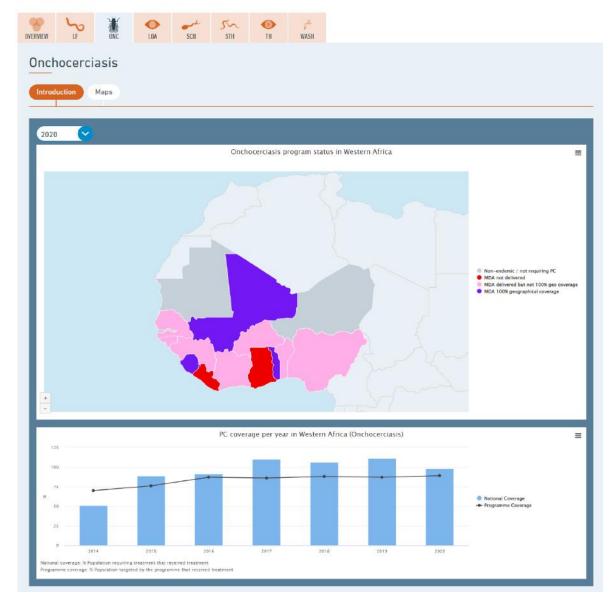
102	52 (50%)
Number of IU Requiring PC for trachoma	Number of IU Implementing PC for trachoma

Disclaimer: summary indicators provided here have been obtained from countries that have submitted the Joint Report Form (JRF) for the selected year. These indicators have resulted from aggregating estimates provided at implementation unit level.

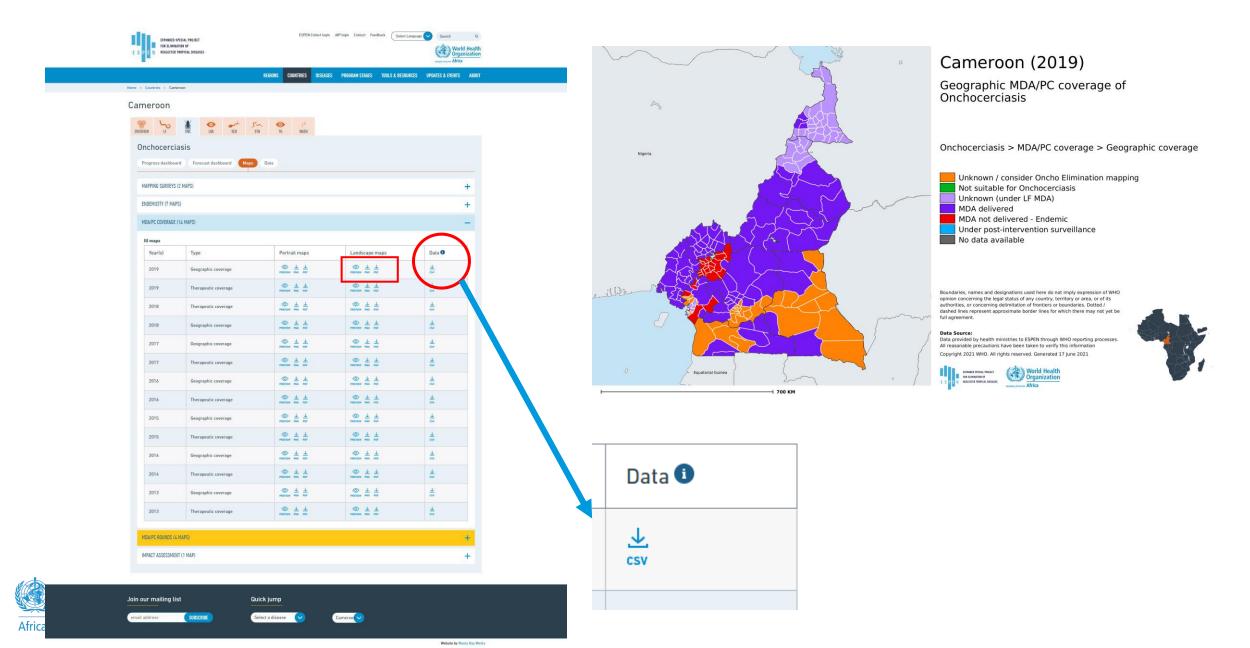


Western Africa comprises 17 countries and is endemic for all five PC-NTDs and loiasis. Most of the region is endemic for LF, or has been historically. Several countries have successfully reduced LF transmission and implement post-MDA surveillance in certain districts. Onchocerciasis occurs throughout the tropical belt covering the southern part of the region. The region is mostly free of Loiasis, although this disease occurs throughout Nigeria. All countries are affected by schistosomiasis and STH, although endemicity levels vary within and between countries.

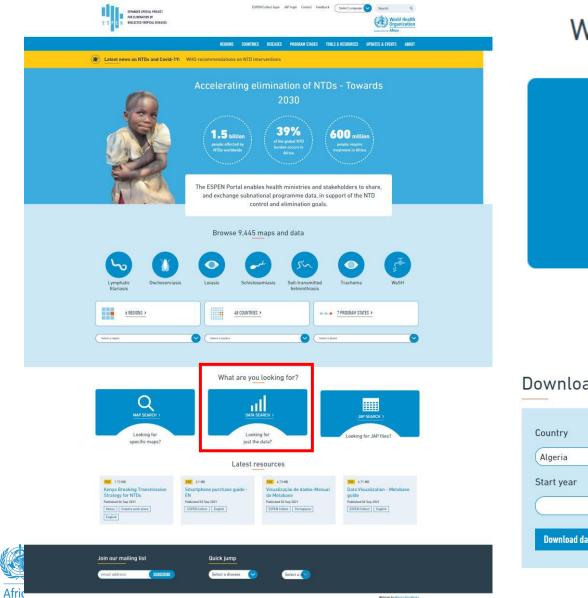
#### Western Africa



# Country level maps

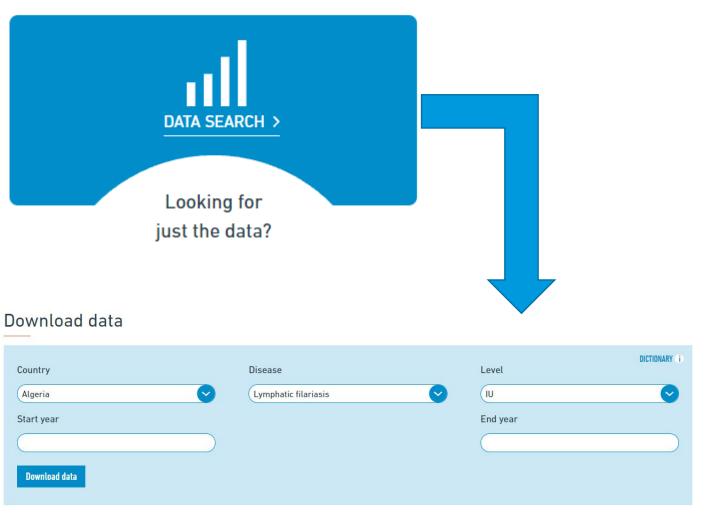






Website by Manta Ray Merks

### What are you looking for?



# ESPEN NTD Portal:

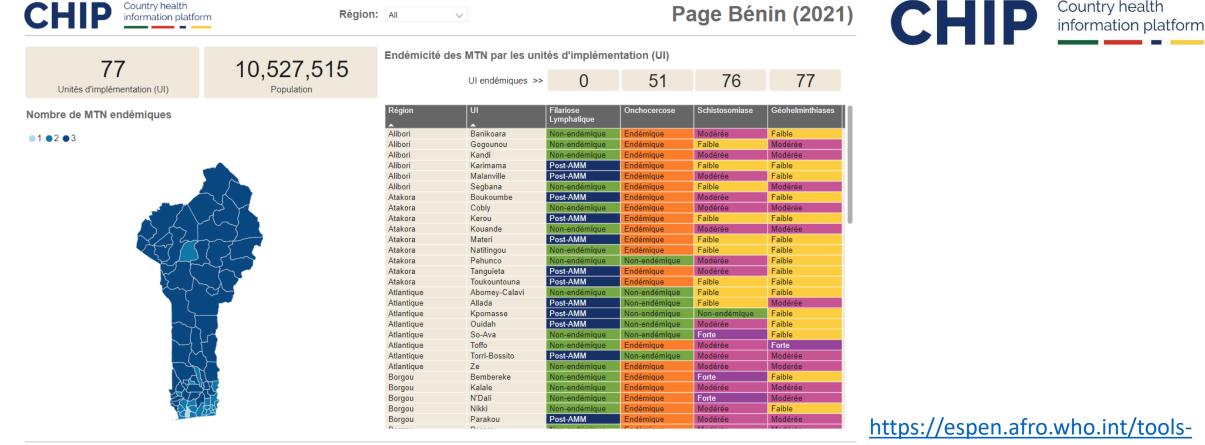
# Analytical Dashboards





# Country Health Information Platform (CHIP)

The **Country Health Information Platform (CHIP)** is a business intelligence software tool, using Microsoft Power BI, which integrates with data on the ESPEN NTD Portal and presents this data to users through a fully interactive, web-based dashboard.



Annuaire Page du pays Filariose Lymphatique Onchocercose Géohelminthiases

Schistosomiase

Trachome

Références

WASH

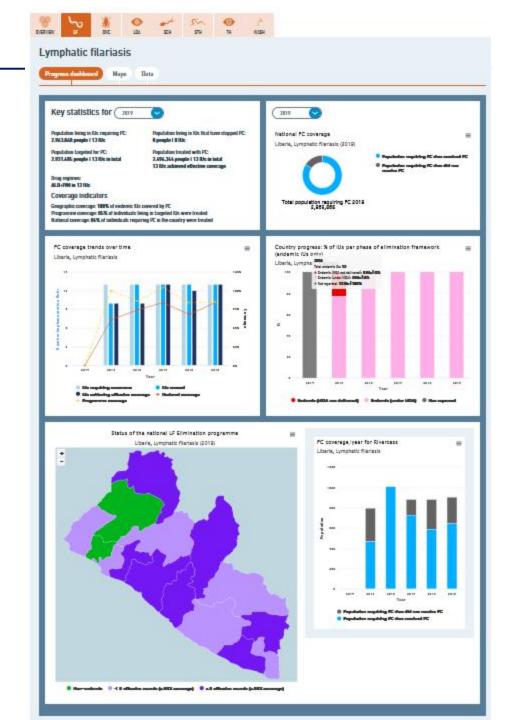
https://espen.afro.who.int/toolsresources/chip

# Progression dashboards

Analytical Dashboards for Monitoring Progress:

- 1. Disease-specific dashboards under COUNTRY tab: progress on PC since 2014
- 2. Key statistics by year including population and IU level summaries
- 3. Simple graphic to emphasis national coverage by year
- Detailed graphics highlighting: trends in population and IU coverage over time Country progress along elimination framework by IU
- 5. Interactive map showing treatment coverage over time (PC rounds map) with linked IU-level PC treatment coverage graph
- 6. Chart and plots are downloadable.





# Projections dashboards

#### Analytical Dashboards with Projections:

- 1. Under COUNTRY tab and DASHBOARDS tab: dashboards for disease projections till 2030.
- 2. Yearly stats: MDA & survey needs until 2030.
- 3. Assumptions: Successful impact assessment means transmission interruption and achieved effective coverage on forecasted MDA.
- 4. Graphics: Disease-specific elimination timelines.
- 5. Map: MDA count for elimination + linked IU-level PC treatment & survey needs.
- 6. Charts & plots: Downloadable.
- 7. Projection data: Downloadable (country & IU summaries).

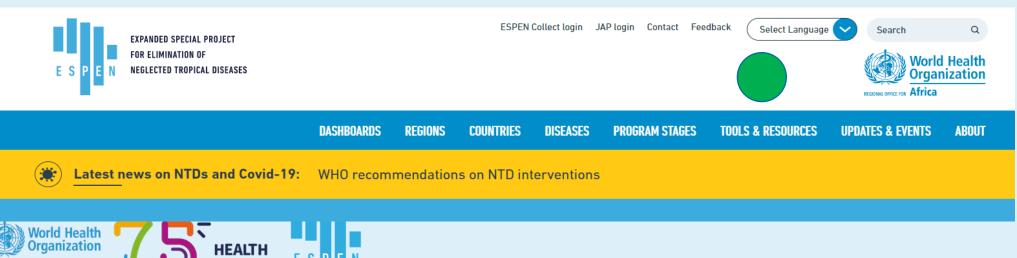


beria	
VERVIEW LF ONC LOA SCH STH TH W	л. MSH
Lymphatic filariasis	
Progress dashboard Forecast dashboard Maps Data	
Forecast for         2021           Population living in IUs requiring PC:         3201.540 people 113 IUs           Bipeople 10 IUs         Bipeople 10 IUs           Expected PC campaigns:         Expected surveys:           ALB=VVM in 13 IUs         Provide Sim 9 IUs	These forecasts outline PC interventions and M&E activities expected from 2021 to 2030, to support fulfilment of the goals established by the <b>NTD Readmap</b> 2021-2030. They have been generated from data submitted by Member States through the annual Joint Application Package. Annual PC projections are based on the current reported endemicity, the number of rounds already conducted up until 2019, and the results of recent impact evaluation surveys. Calculations assume that all future PC rounds will be delivered as scheduled and will achieve effective coverage targets, and that future impact assessments will show reduction in prevalence below target thresholds. This brief technical summary provides more information.
LF Elimination timeline: forecast IUs requiring PC and surveys	Forecast country progress: % of IUs per phase of elimination framework
Liberia, Lymphatic filariasis	(endemic IUs only) Liberia, Lymphatic filariasis
B is requiring treatment + bs requiring surveys	10 10 10 10 10 10 10 10 10 10
Progress towards LF elimination: expected last year of MDA Liberia, Lymphatic filariasis (2020)	=
	IU-level forecast for Nimba
	IU endemicity in 2020: Endemic PC regimen: ALB+IVM (MDA1) 700k
	600k
	500k
	90 400. — — — — — — — — — — — — — — — — — —
	Si 2004
SINCE	200
Drug regiman in 3000 ALB-PMM MINAT) Expected last round of frc: 2021 Expected TASI survey: 2026	1001 2022 2021 2024 2025 2006 2027 2028 2029 2010
	Population to be targeted for PC
🔴 Non-endemic 👘 MDA final year: 2021 👘 MDA final year: 2022	

# ESPEN NTD Portal:

African Region

# ESPEN Collect & JAP Upload tool







### **ESPEN** Collect

In coordination with partners, Ministries of health planning disease specific assessments related to Neglected Tropical Diseases are encouraged to register to use ESPEN Collect for mobile data collection.

#### What is ESPEN Collect?

ESPEN Collect is a free mobile data collection tool for the national programs (Ministry of Health: MoH), Neglected Tropical Disease related NGOs, partners... in World Health Organization's African region.

ESPEN Collect is simple to use and train. Launched in August 2018, it is based on ODK (Open Data Kit) architecture.

Designed to collect data for the four Neglected Tropical Diseases responsive to Preventive Chemotherapy (PC-NTDs):

- Lymphatic Filariasis (LF)
- Onchocerciasis (Oncho)
- Schistosomiasis (SCH)
- Soil-transmitted Helminthiasis (STH)

ESPEN Collect currently supports disease-specific surveys that collect data to populate the JAP (Joint Application Package), as well as non-disease specific Coverage surveys.

#### World I Organi: African Region

#### How to download?

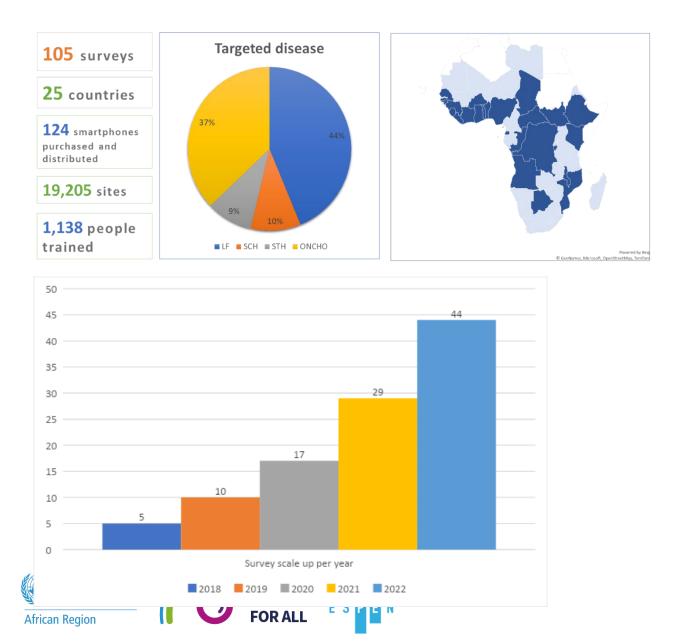
#### Submit a request



#### ESPEN Collect registrations summary

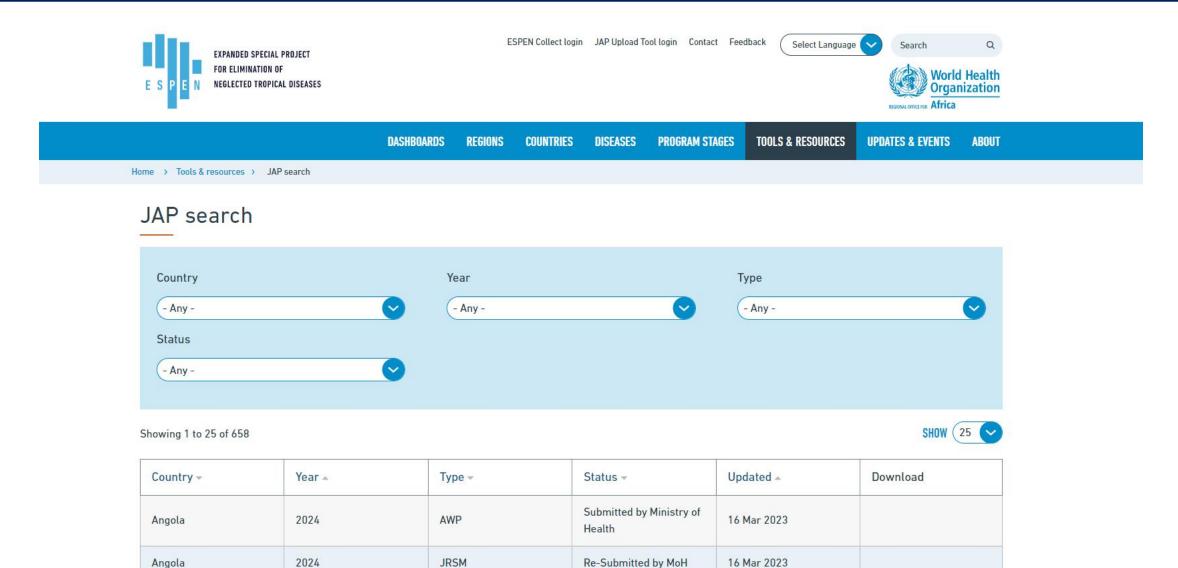
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# ESPEN Collect



- ESPEN Collect received 105 support requests from 25 countries, highlighting the platform's growing recognition and demand.
- In 2022, 44 surveys from 19 countries received comprehensive support through ESPEN Collect.
- ESPEN Collect collaborated with five partner organizations, namely Sightsavers, FHI360, KEMRI, HKI, and Crown Agents.
- ESPEN Collect expanded to five new countries in 2022: Chad, DR Congo, Guinea Bissau, Kenya, and Malawi.
- ESPEN Collect facilitated data collection from 546 districts and 5,845 sites, including schools and villages.





Submitted by Ministry of

Haalth

03 Apr 2022





AWP

# ESPEN NTD Portal:

# Futures developments



# Challenges & Ongoing Developments

#### **CHALLENGES - LIMITATIONS**

- Timeliness to release new data conditioned to JAP submission
- Growing in complexity and functionalities
- Focused on endemicity and treatment interventions but lacking data on morbidity management or supply chain management
- Lack of dashboard analytics for trachoma
- Conceived as a data repository and given less attention to contents and communication aspects
- Existing projections based exclusively in existing empirical data and disease-specific assumptions
- Some resources such as map generator and dashboards not translated to other languages (French, Portuguese)
- Repository static maps



#### **ONGOING & FUTURE DEVELOPMENTS**

- Streamlined the data processing country-by-country, to make sure data is released as it comes to the ESPEN system
- Develop training materials for users to learn on navigation, data search, data extraction, and utilization of resources to guide programmatic decisions.
- Incorporate morbidity indicators and information concerning medicine request, needs and delivered.
- Develop analytical dashboards for trachoma indicators
- Architectural changes on the Portal (v3.0) to make easier the navigation, data exploration and find NTD related contents.
- Improve ESPEN projections by incorporated modelled data (transmission models) → commodities estimates
- Precise translation to multiple languages of ALL resources
- On-the-fly generation of maps upon demand

# Tracking Funding Availability – Inquiry

- Two cohorts of inquiries:
  - ✓ November 2022 January 2023 → planned interventions in 2023
  - ✓ April 2023 on (2024) → planned interventions in 2024
- Based on planned MDA and Surveys submitted through JRSM 2023 & JRSM 2024
- Inquiry about funding availability for planned MDA & M&E **at IU level** 
  - ✓ Funding secured
  - ✓ MoH funding allocated
  - ✓ Partners supporting/covering
- 26/44 (2023) & 27/44 (2024) countries reported funding availability
- 20 countries have submitted information for 2023 and 2024



# Tracking Funding Availability – Inquiry

### Total summaries for 26 and 27 countries reporting for 2023 and 2024, respectively

	2	023		2024
Disease	No. IU MDA	Funding gap MDA (%)	No. IU MDA	Funding gap MDA (%)
Lymphatic filariasis	737	12%	490	35%
Onchocerciasis	1101	11%	939	10%
STH	1737	35%	1240	21%
Schistosomiasis	1821	24%	1788	25%

### *Total summaries for 20 countries reporting for 2023 and 2024*

	2	023		2024
Disease	No. IU MDA	Funding gap MDA (%)	No. IU MDA	Funding gap MDA (%)
Lymphatic filariasis	667	11%	309	18%
Onchocerciasis	807	13%	852	6%
STH	996	51%	926	11%
Schistosomiasis	1342	23%	1435	15%



# Tracking Funding Availability – Inquiry

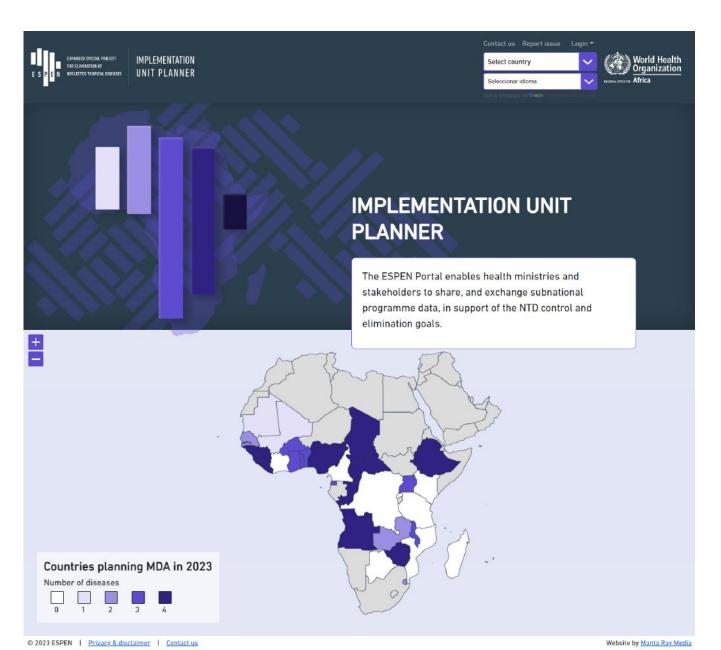
	20	23	20	24
	26 cou	ntries	25 cou	ntries*
	Areas that have NOT secured funding yet	Areas that have secured funding	Areas that have NOT secured funding yet	Areas that have secured funding
Population Requiring PC	91,072,284	318,976,198	93,843,113	211,753,859
Population Requiring PC for LF/ONC	37,788,061	230,391,600	34,764,107	92,371,640
Population Requiring PC for STH/SCH	58,733,257	170,010,170	66,043,091	171,067,288
Cost Estimate PC	\$ 45,536,142.00	\$ 159,488,099.00	\$ 46,921,556.50	\$ 105,876,929.50
Cost Estimate PC for LF/ONC	\$ 18,894,030.50	\$ 115,195,800.00	\$ 17,382,053.50	\$ 46,185,820.00
Cost Estimate PC for STH/SCH	\$ 29,366,628.50	\$ 85,005,085.00	\$ 33,021,545.50	\$ 85,533,644.00

Assuming average cost of US\$ 0.5 per person treated

\* JRSM report for Eq Guinea & Nigeria not yet uploaded to the ESPEN database, and 1 country (Cameroon) have not yet submitted the funding information.



# Tracking Funding Availability – ESPEN IU Planner v1.0

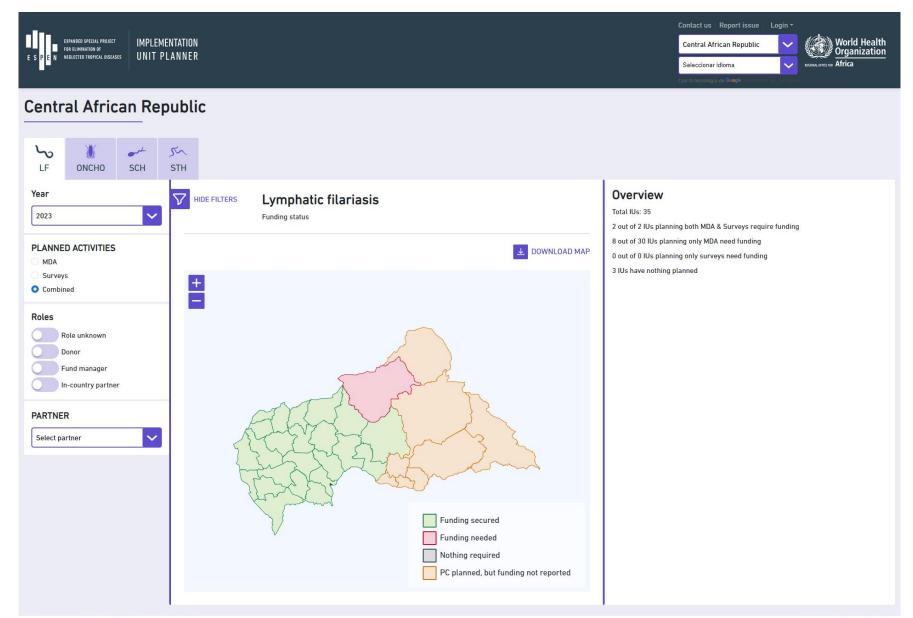


### **Principles/Objectives**

- Identify funding gaps
- Confirm or reject country assumptions on funding support for planned actions
- Clarify stakeholder roles (donors/implementers)
- Edit endemicity data or add survey needs
- Registration and edit permissions provided by ESPEN
- Currently beta version under piloting
- Launch expected in January 2014



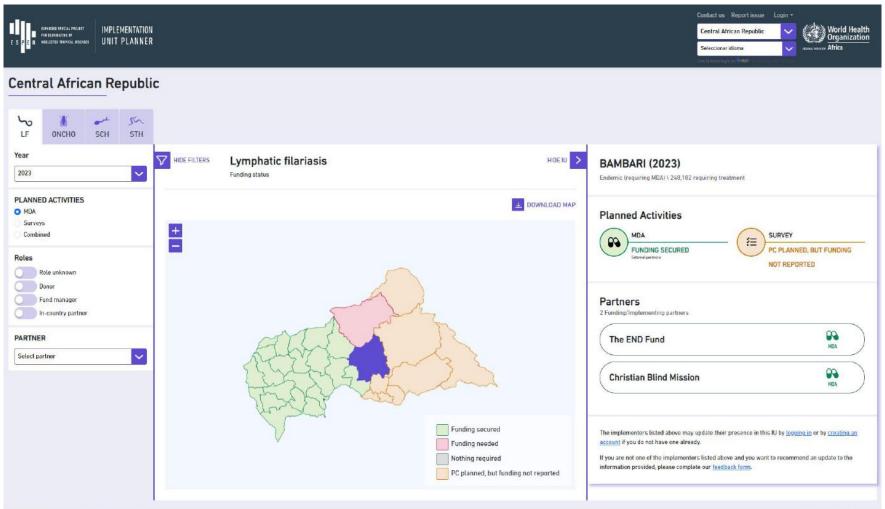
# Tracking Funding Availability – ESPEN IU Planner



### **Functionalities**

- Visualizing confirmed support
- Overview funding committed and planned MDA/Surveys
- Pop-ups window with summary information when clicking on an IU
- Overview landing page with summaries of funding availability, partners, etc. (*under development*)
- Selection by multiple options: activity, partner, role, etc.

# Tracking Funding Availability – ESPEN IU Planner



Functionalities for partner (after log in)

- Revise information provided by country programmes
- Enter the role played: donor, fund manager, incountry partner
- Option to download CSV with the preliminary information by IU for easing data entry
- Possibility to confirm longterm support beyond the year specified

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Website by Manta Ray Media

# ESPEN NTD Portal:

# Additional Country Progress Analytics



Developed with the support of linksbridge



# Additional Supporting Data Tools – Country data packs

### Ex. Lymphatic filariasis - Angola

### 📒 Maps

- Summary\_Charts
- Summary\_Tables
- 🔊 Angola\_LF\_Loa\_IU\_data.xlsx
- Workbook\_LF\_IU\_Data\_Angola.xlsx
- Workbook\_LF\_IU\_Data\_Angola\_Loiasis.xlsx
- Workbook\_LF\_Survey\_Data\_Angola.xlsx

### Maps

- IU level Endemicity maps since 2014
- IU level MDA coverage since 2014
- IU level Cumulative rounds by period: 2015, 2018, 2020, 2021 & 2022

### Summary Charts (2017 – 2022)

- Plot distribution endemicity
- Plot treatment needs, delivered, epidemiological & geographical coverage

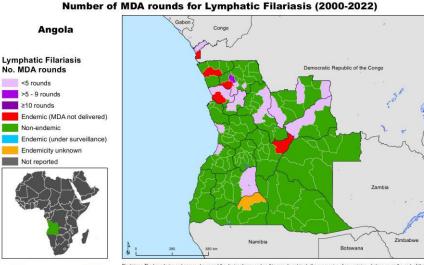
### Summary Tables (2017 – 2022)

- Demographics
- No. IU by endemicity category
- Treatment detailed indicators

### Workbooks (including data dictionaries)

- IU level summary indicators since 2014
- All surveys available under ESPEN db
- Aggregated prevalence estimates based on surveys

## Additional Supporting Data Tools – Country data packs

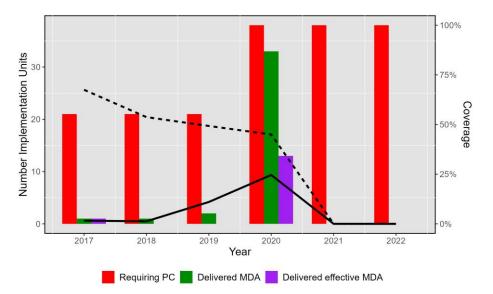


EXPANDED SPECIAL PROJECT

FOR ELIMINATION OF NEGLECTED TROPICAL DISEASES World Health

Disclaimer. The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement

Data source: Data provided by health ministries to ESPEN through WHO reporting process. All reasonable precautions have been taken to verify this information Map production: ESPEN/AFRO/WHO NTD Mapping project funded by the Bill & Melinda Gates Foundation © WHO 2023. All rights reserved



			Ye	ear		
Indicators / Year	2017	2018	2019	2020	2021	2022
Population requiring MDA	2,266,800	2,331,399	2,394,342	3,819,439	3,979,637	4,105,407
Population no longer requiring MDA	0	0	0	0	0	0
Population targeted for MDA	53,774	55,306	534,899	2,088,781	0	0
Population treated	36,292	29,712	263,549	939 <mark>,5</mark> 09	0	0
No. IU implementing MDA	1	1	2	33	0	0
No. IU achieving effective coverage	1	0	0	13	0	0
Geographical Coverage	4.8%	4.8%	9.5%	86.8%	0.0%	0.0%
Programme Coverage	67.5%	53.7%	49.3%	45.0%	0.0%	0.0%
National Coverage	1.6%	1.3%	11.0%	24.6%	0.0%	0.0%
No. IU delivering ALB+DEC	0	0	0	0	0	0
No. IU delivering ALB+IVM	1	1	2	33	0	0
No. IU delivering 2XALB	0	0	0	0	0	0
No. IU delivering IDA	0	0	0	0	0	0

MDA: mass drug administration

Geographical coverage: No. IU implementing MDA/No. IU requiring MDA

Programme Coverage: Population treated/Population targeted

National Coverage: Population treated/Population requiring treatment

NA: Data not available

# Additional Supporting Data Tools – Dashboard (tailored)

#### 1. Country Dashboard

*Country-disease summary indicators to measure country progress and performance in given disease* 

#### 2. RPRG feedback tool

## Standardized feedback tool for experts to provide recommendations and feedback

		Country Re				Use the filter	s below to see	your data of in	terest
	-	Lymphatic Fil	ariasis		ESPEN I	Priority Country (LF)	Country		Year
					(AII)		(All)	•	(Multiple values)
		Disease	Mapping		Cov	/erage		Treatment	Progress
Country	Year	% IU baseline	lu Mda	% Req Treat	Poptreat	% Req Reached %	Eff Coverage	% IU stopping md	
Angola	2014	92	0	8	0	0		(	0 0
2010/2211/01/0	2015	92	0	8	0	0		(	0 0
	2016	93	1	7	16,701	1	0	(	0 0
	2017	93	1	8	36,292	2	100	(	0 0
	2018	93	1	8	29,712	1	0	(	D 0
	2019	93	2	8	263,549	11	0	(	0 0
	2020	99	33	12	939,509	25	39	(	0 0
	2021	99	0	12	0	0		(	0 0
	2022	99	0	12	0	0		(	0 0
Benin	2014	100	25	27	1,273,314	46	40	48	8 48
	2015	100	25	27	1,631,338	56	60	48	8 48
	2016	100	25	27	1,686,564	56	28	48	8 48
	2017	100	25	24	1,980,880	82	100	48	8 52
	2018	100	15	14	1,197,487	86	100	6	7 71
	2019	100	4	3	251,369	85	100	92	2 94
	2020	100	4	3	262,386	83	100	92	2 94
	2021	100	0	0	0			100	0 100
	2022	100	0	0	0			100	0 100
Burkina Faso	2014	100	41	65	8,202,072	70	100	35	5 35
	2015	100	30	45	5,393,933	65	100	57	2 55
	2016	100	31	45	5,485,410	64	100	50	5 55
	2017	100	24	27	4,229,398	80	100	60	6 70



Back to Table of Contents				
	Action needed		Recommendation	Comments
Disease Mapping/Endemicity	[drop down: yes/no]		[tbd drop down or open?]	[Open]
Overall	Y	Yes		
Mapping Surveys		No		
Refinement Mapping	Y	Yes	Refinement mapping to be completed	No clear endemici suspected lus w/ L
Coverage	Action needed		Recommendation	Comments
Overall		No		
MDA Quality		No		
MDA Supervision		No		
Target Population		No		
Treatment Progress	Action needed		Recommendation	Comments
Overall	١	Yes		
MDA Scheme	١	Yes	Add DEC to regimen	
Drug Efficacy	,	Yes	Investigate efficacy of drug regimen	More than 15 rour effective MDA but burden
M&E Progress	Action needed		Recommendation	Comments
Overall		No		Survey needs met
Impact Assessments		No		
Suspected Transmission Suppressed (Pre-STOP)		No		
Suspected Transmission Interrupted (STOP)		No		
Post-intervention Surveillance		No		
Implementation & Support	Action needed		Recommendation	Comments

# Additional Supporting Data Tools – Dashboard (tailored)

- What is it: dashboards is intended to provide country level summaries of PC-NTD progress at the IU and population level.
- How to access: [Link]
- How to navigate: There are six sheets within the dashboard, they include:

### (1) Overview & Instructions

				Cour	ntry Profile D	Jashboard				
nie enita /	of dashboar	de le intended to or	rovida country laval	ummaries of DC.	NTD orograss at th	se IU and population lev	al instru	intions on how to use	a the dashi	hoards ara halou
ing gange i	in clean brown		ovide country refer	anning fearer r c	in o progress as c	ie to ana population let	Contract of		e crite search	
Overview &	Instructions	Data Dictionary	phatic Filariasis Onch	cerciasis Soil Tran	smitted Helminths S	chistosomiasis				
			1. Select your itisease interest	of						
		Col	untry Report:					ters beton to see your data	of internet	
		Lymp	phatic Filariasis		10			Ces pecon to see jusy cars	a solerest	
						ESPEN Priority Country (LF)		Country		Vear
						(61)		(40)	•	(Multiple values)
								I		
			Disease Mapping		-		and the second second			A
					2. Select w	wheretheir you ESPEN priority	3. Selectly	rour country(im) t to further filter		our year(s) of terest
						ALL AFRO		table data		ALC: NOTE: NOT
Country	Year	% IUs w/ Daseline	# IUs Implementing	% PopReg Tx		not prioritized	The Dates and	Effective Cov. In IUs Stor	ACM Incine	19 Pop No Longer B
country		Mapping	MDA	in a obtaining on	400	ritries .			Advent and an	and the standard
Angola	2014	92.4	0.0	8.1	0.0	0.0		0.0		0.0
	2015	02.4	0.0	8.0	0.0	0.0		0.0		0.0
	2010	02.7	1.0	7.5	16,701.0	0.8	0.0	0.0		0.0
	2017	92.7	10	0.1	36,292.0	1.6	100.0	0.0		0.0
	2018	92.7	10 20	7.9	29.712.0 263.549.0	13	0.0	0.0		0.0
	2019	92.7	2.0	7.9	-929,509.0	24.6	22.	0.0		0.0
	2021	98.8	0.0	12.1		0.0	39.4	0.0		0.0
		90.8	0.0	12.4	0.0	0.0		0.0		0.0
							40.0	47.9		47.9
	2022									
Denin	2014	100.0	25.0	27.0	1.273,314.0	45.6				
Denin	2014 2015	100 0 100 0	25.0	27.0	1,631,338.0	56.5	60.0	47.9		47.9
Denin	2014 2015 2016	100.0 100.0 100.0	25 0 25 0	27.0 27.0	1.631.338.0 1.696.564.0	56.5 56.4	60.0 29.0	47.9		47.9
Benin	2014 2015 2056 2017	100 0 100 0 100 0 100 0	25 0 25 0 25 0	27.0 27.0 23.9	1.631.338.0 1.696.564.0 1.980.880.0	96.5 56.4 81.6	60.0 28.0 100.0	47.9 47.9		47.9 12.1
Benin	2014 2015 2016 2017 2018	100 0 100 0 100 0 100 0 100 0 100 0	25 0 25 0 25 0 15 0	27 0 27 0 23 9 14 3	1,631,338,0 1,696,564,0 1,980,880,0 1,197,487,0	56.5 56.4 81.6 85.7	60.0 29.0 100.0 100.0	47.9 47.9 66.7		47.9 52.1 71.2
Denin	2014 2015 2056 2017	100 0 100 0 100 0 100 0	25 0 25 0 25 0	27.0 27.0 23.9	1.631.338.0 1.696.564.0 1.980.880.0	96.5 56.4 81.6	60.0 28.0 100.0	47.9 47.9		47.9 12.1

### (2) Data dictionary

Data source: All data used in t	he Country P	Data Dictionary	ullad Novambar 2023
Variable	1 A A A A A A A A A A A A A A A A A A A	Definition	Calculation
% IUs w/ Baseline Mapping	All	Precent of IUs completing baseline mapping, i.e., endemicity status known	(# known IUs- # IUs endemicity unknown)/# known Ius)*100
% IUs w/ Effective Cov.	All	Percent of IUs implementing MDAs with effective therapeutic treatment coverage	(# IUs delivering effective MDA round/# IUs implementing MDA)*100
% Pop No Longer Req Tx	All	Percent of the population who no longer require treatment	(Pop Not Treated/(Pop Requiring Treatment+Pop Not Treated))*100
% PopReqTx	All	Percent of population requiring treatment	(Pop Requiring Treatment/Pop Total)*100
% PopReqTx Reached	All	Percent of the population requiring treatment treated	(Pop Treated/Pop Requiring Treatment)*100
%IUs Stopping MDA	All	Percent of IUs stopping MDA	(# IUs endemic under PIS/# all endemic lus)*100
IUs Implementing MDA	All	# of IUs implementing MDA	IU_mda
РорТх	All	Population treated, proxy for # of treatments	РорТх
% IUs Recommended Pre-STOP	Oncho	Percent of endemic areas potentially eligible for pre-STOP. Suspected transmission suppressed.	((# IUS where oncho is endemic & # cumulative MDAs > 15 & EpiEffective MDAs >= 5)/# all endemic lus)*100
% IUs Recommended STOP	Oncho	Percent of endemic areas potentially eligible for STOP. Suspected transmission interrupted.	((# IUS where oncho is endemic & # cumulative MDAs > 15 & EpiEffective MDAs < 5)/# all endemic lus)*100

### (3-6) Disease-specific country indicators (LF, Oncho, STH, SCH)

of interest Vear Juinate values) ent Progress oping % No Longe mda Rec	onger Req	onger Req	nger Req 0
Multiple values) ent Progress pping % No Longe	Req		Req
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			94
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		94	100
48 52	2 94	100	35
	1 94		55
			55
			70
		70	
56 55 66 70			
	0 4 0 0 4 48 44 48 44 48 55 57 77 92 99 92 99 100 100 100 100 100 100 100 100	0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         48           48         48         48         47           67         71         54         100           92         94         100         92           100         100         55         100         100           35         35         55         55	0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         40           0         0         44         48         48         49           48         48         42         24         44           47         72         34         100         35           92         34         100         35         100         100         35           100         100         35         57         100         35         58         70



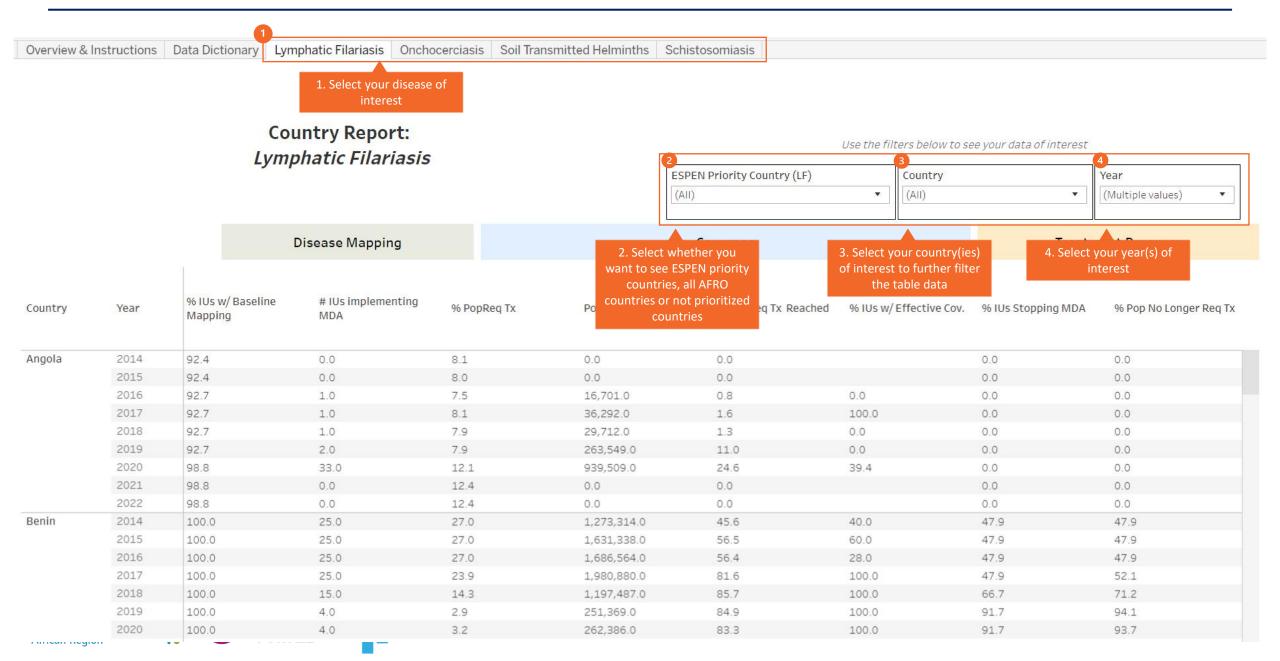
# Additional Supporting Data Tools – Dashboards (tailored)

<b>Data source:</b> All data used in t	he Country I	Profile dashboards are from the ESPEN portal, p	ulled November 2023.
Variable	Disease	2 Definition	Calculation
% IUs w/ Baseline Mapping	All	Precent of IUs completing baseline mapping, i.e., endemicity status known	(# known IUs- # IUs endemicity unknown)/# known Ius)*100
% IUs w/ Effective Cov.	All	Percent of IUs implementing MDAs with effective therapeutic treatment coverage	(# IUs delivering effective MDA round/# IUs implementing MDA)*100
% Pop No Longer Req Tx	All	Percent of the population who no longer require treatment	(Pop Not Treated/(Pop Requiring Treatment+Pop Not Treated))*100
% PopReqTx All		Percent of population requiring treatment	(Pop Requiring Treatment/Pop Total)*100
% PopReqTx Reached	All	Percent of the population requiring treatment treated	(Pop Treated/Pop Requiring Treatment)*100
%IUs Stopping MDA	All	Percent of IUs stopping MDA	(# IUs endemic under PIS/# all endemic Ius)*100
IUs Implementing MDA	All	# of IUs implementing MDA	IU_mda
РорТх	All	Population treated, proxy for # of treatments	РорТх
% IUs Recommended Pre-STOP	Oncho	Percent of endemic areas potentially eligible for pre-STOP. Suspected transmission suppressed.	((# IUS where oncho is endemic & # cumulative MDAs > 15 & # EpiEffective MDAs >= 5)/# all endemic Ius)*100
% IUs Recommended STOP	Oncho	Percent of endemic areas potentially eligible for STOP. Suspected transmission interrupted.	((# IUS where oncho is endemic & # cumulative MDAs > 15 & # EpiEffective MDAs < 5)/# all endemic lus)*100

World Organi

African Region

# Additional Supporting Data Tools – Dashboard (tailored)



# Additional Supporting Data Tools – Dashboard (tailored)

## Feedback Form

- What is it: Standardized feedback tool for experts to provide recommendations and feedback for priority countries in the Country Dashboard across the six buckets of data shown.
- How to access: [Link]
- How to navigate: There are tabs for each disease and priority country combination:



Table of Contents

Back to Table of Conter Back to Table of Cont Action needed Recommendation Comments Action needed Recommendation Comment Back to Table of Conten Action needed Recommendation Comment Disease Mapping/Endemicity [drop down: yes/no [tbd drop down or open] Overal Mapping Surveys No clear ende suspected lus w/ Refinement Mapping es completed Coverage Action needed Recommendat Overa MDA Quality MDA Supervision Target Population Action neede Overal MDA Scheme Yes Add DEC to regime More than 15 ro Investigate efficacy of d effective MDA b Drug Efficacy es regimer hurden M&E Progress Action neede Comment Overal Survey needs me Impact Assessments Suspected Transmission Suppressed (Pre-STOP spected Transmission Interrupted (STOP Post-intervention Surveillance entation & Sunnort Action needed Recommendation Comment

Feedback sheet by disease and priority country

# PC-NTD RPRG

Operationalizing RPRG members' support



### PURPOSE

World Health Organization

- 1. To **support** the control and elimination of targeted Neglected Tropical Diseases (NTDs).
- 2. To provide strategic and technical advice to national NTD programmes.
- 3. To guide efforts toward achieving the NTD targets and goals of the 2030 roadmap.

### **Roles RPRG Members**

- 1. Regularly attend and actively engage in deliberations, review submissions, and support the Secretariat in their duties as needed.
- 2. Fulfil responsibilities delegated by the co-chairs, including **participation in sub-committees** and joint country missions representing the PC-NTD RPRG.
- 3. Engage in the **review and updating** of the Group's Standard Operating Procedures (**SOPs**).

# Operationalizing RPRG members' support

- 1. As members of the RPRG, how do you think you can contribute to the purpose of this advisory structure: provide **support**, **technical advice** and **guide efforts** towards the control and elimination of PC-NTDs in the African region?
- 2. How do you **envision** the most efficient and effective methods for channelling RPRG's support to address the unique challenges of PC-NTDs? Could you propose specific strategies or models that would enhance our collaborative efforts and ensure the impactful implementation of our support in diverse regional contexts?
- 3. Reflecting on the **resources** and **tools** currently provided by ESPEN as the secretariat, do you feel these are **sufficient** and effective for you to fulfil your advisory responsibilities effectively? Are there specific types of data, resources, or instruments that you think could enhance your ability to provide informed, strategic guidance in our joint efforts to control and eliminate PC-NTDs?



# Thank you

For more information, please contact:

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ESPEN Collect Data Manager

Mr Yumba Dyesse

yumbad@who.int

Mr Honorat Zouré ESPEN Database Admin. zoureh@who.int

World Health Organization African Region



BILL& MELINDA GATES foundation ALMA Scorecard for Accountability and Action





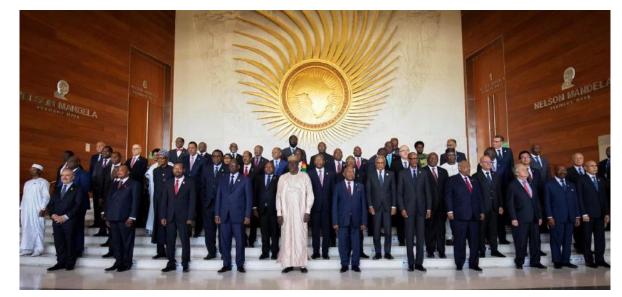


# **About ALMA**

- Established in 2009
- 55 African Heads of State and Government working to eliminate malaria and NTDs in Africa
- Provides a forum to review progress and achieve targets set by the African Union and SDGs
- ALMA's Chair is H.E. President Umaro Sissoco Embaló of the Republic of Guinea-Bissau

**FOR ALL** 

African Region



ALMA Heads of State and Government during the AU Summit



**H.E. Umaro Sissoco Embaló** President, Republic of Guinea-Bissau Chair, ALMA



Increase digitalisation and use of evidencebased tools (including national malaria, NTD and **RMNCAH** scorecard tools)

Mobilise national **Youth Corps to** recruit and engage youth leaders to champion the fight against malaria and NTDs and promote UHC

ALMA Youth Strates

Establish national End Malaria & **NTDs Councils** and Funds to support mobilise advocacy, action, and resources from across all sectors



Enhance regional coordination on malaria through **Regional Economic** Communities (incl. for improved local manufacturing and regulatory environments)

**FOR ALL** 

**2022** Malaria Progress Report.



ELERO MALARIA

Malaria & NTDs are mainstreamed into the AU Summit, including the keynote presentation from the ALMA Chair. The annual report, including the ALMA Scorecard and a supplement on NTDs, is part of the official summit documentation

African



The ALMA Scorecard for Accountability and Action and country narrative reports are produced quarterly. Includes indicators on malaria, NTDs, and other priority areas of health for Heads of State & Government and Ministers of Health and Finance.



Malaria & NTDs AUC meeting held on the side lines of the WHA attended by Ministers of Health and Development Partners



Republic of Congo awarded the 2022 Joyce Kafanabo Award for Best NTD Scorecard at the AU Summit



Briefing of the Permanent Representative Committee of the AU on the implementation of the malaria related targets of the Catalytic Framework to End AIDS, TB and Eliminate Malaria in Africa by 2030 and the implementation of the Continental Framework to Control and Eliminate NTDs in Africa, the AU Roadmap on NTDs and the Kigali Commitments

#### **ALMA SCORECARD FOR ACCOUNTABILITY & ACTION**

The ALMA Scorecard for Accountability & Action and recommended actions engage senior leaders to prioritise malaria and NTDs

The ALMA Scorecard and Country Reports are disseminated quarterly to

Heads of State and Government, Ministers of Health, Finance and Foreign Affairs, Ambassadors to the AU and UN

#### The ALMA Scorecard has helped:

- Sustain malaria and NTDs on the regional development agenda
- Increase donor and domestic resources
- Accelerate procurement
- Enact policy changes

Country-specific recommended actions have a 97% response rate for NTDs

NTDs were added to the ALMA Scorecard at the 30<sup>th</sup> AU Summit to raise their visibility on the continent



An independent evaluation by R4D of scorecards and data visualization tools identified the ALMA Scorecard as a gold star example, noting that it has a clear and focused theory of change with defined objectives and audience, includes actionable indicators and has a clear engagement plan for its target audience.

#### **ALMA SCORECARD FOR ACCOUNTABILITY & ACTION**

### The ALMA Scorecard for Accountability & Action includes the NTDs Coverage Index—with additional indicators under consideration

- The NTD Coverage Index (i.e., the percentage of the population protected by preventative treatment) is calculated annually by the WHO
- ALMA, WHO, UTC and other partners develop recommended actions for countries with low coverage (e.g., red) or where performance declines by 10% or more
- ALMA sends these recommended actions to Heads of State and Government and Ministers
- 97% response rate for NTDs recommended actions

) Index							PC Data Portal ases, accessed			eglected	(A) W	orld Health ganization	
	Populat	tion (in 1000) r	equiring trea	tment by diseas	a 2021		Court	rage by diseas	e 2021		NTD	Index	
	LF	ONCHO	SCH	STH	TRA	UF	ONCHO	SCH	STH	TRA	2020	2021	
Angola Y		6,234	3,303	5,013	No data	0	0	61	28	ND	19	2	Not on trae
Benin )		6,005	1,585	1,749	0	100	68	48	59	100	77	72	Progrey
Botswana )	JULYCHIGHLE	0,005	372	43	No data		00	98	0	ND	3	3	Ont
Burkina Faso	2,103	286	2,236	Surveillance	0	0	20	98	100	100	89	18	No.
Burundi )	4,400	2,072	1,682	967	0		0	100	98	100	95	18	0 red
Cabo Verde	-	2,072	1,002	150	v			100	0	100	55	0	QINRI
Cameroon Y	60	11.466	2,832	3,678	332	34	70	97	75	72	4	66	O(VAL) ut data is
Central African Republic Y		3,579	669	1,528	3,602	77	61	16	43	47	ō	43	validation
Chad 1		6,089	2,452	576	526	78	78	77	36	O(NR)	12	18	validation
Comoros 1		0,003	2,432	278	320	39	10		8	ohad	33	18	
Congo Y		786	231	855		50	66	35	47		33	43	
Côte d'Ivoire		19,559	2,930	2,481	6.237	25	75	85	59	62	59	57	
mocratic Republic of the Congo		52,045	2,950	25,029	6,237	81	30	90	63	30	39	64	
Equatorial Guinea	949	Surveillance	88	388	10,230	20	a	0	36	*	0	3	
Equatorial Guinea 1 Entrea 1		our vemance	247	300	96	85		68	30	98	31	83	ALMA SCORECARD FOR ACCOUNTABILITY AND ACTION
Entrea 1 Eswatini 1			24/ 282	17	30	0	-	0	0	70	0	0	Second Quarter, 2022
Ethiopia Y		26,250	8,190	29,029	71,787	25	66	38	18	65	11	38	
Gabon Y		722	160	430	74,107	0	0	0	0		0	0	
Gambia Y		122	258	430	Eliminated	0		15	47	100	1	41	
Ghana Y		0.001			Biminated	70	49	59	100	100	ő	and the second se	
Guinea Y		8,391 7,960	4,705	Surveillance 2,401	241	69	74	100	65	0	73	73 20	
Guinea-Bissau Y	1,942	580	111	387	27	12	0	75	18	1	12	4	
Kenva Y		300	2,161	8,099	2,801	0		64	42	62	29	11	
Lesotho )			2,104	387	4,001				0	04	0	0	free latatatatatatatatatatatatatatatatatatat
Liberia \		3,237	893	812		72	71	55	50		0	61	KEY:
Madagascar Y		0,001	4,439	7,381		O(VAL)		O(VAL)	O(VAL)		34	0	
Malawi Y		2,491	3,834	7,838	0	100	86	37	22	100	76	59	•
Mali Y	And we share on the second	6,326	4,083	Surveillance	0	100	0	95	100	100	95	25	
Mauritania 1		0,720	454		0		-	31		100	85	56	
Mozambique Y	19.580		6.530	12,742	4.966	3	-	13	7	16	13	8	
Namibia 1			135	331	No data			0	0	ND	0	0	
Niger Y	4,306		4,732	Surveillance	5,285	0		58	100	28	61	11	
Nigeria 1		50,876	18,285	47,445	5,206	14	24	8	17	0	56	5	
Rwanda \			1,044	4,216	-			98	90		86	94	
Sao Tome and Principe	Surveillance		25	82		100		70	58		8	74	
Senegal Y	5,765	347	1,591	1,305	0	19	95	93	4	100	42	37	
Sierra Leone		7,315	667	1,268		74	78	0	67		59	14	
South Africa			3,808	15,682				0	0		0	0	
South Sudan	8,758	8,750	1,596	694	3,457	53	62	1	35	21	2	19	
Togo Y	Eliminated	3,916	2,192	2,590	0	100	82	8	62	100	86	53	
Uganda Y		1,684	5,795	19,088	958	100	83	0	66	52	70	20	
United Republic of Tanzania	7,921	6,752	8,752	23,465	2,132	77	85	94	49	34	3	63	
Zambia V			2,407	4,578	2,402	37	-	80	33	49	9	47	
Zimbabwe Y	8,147	-	2,051	598	4,455	0	-	0	0	15	2	0	
Djibouti Y				111					0		0	0	
Egypt )	Eliminated	2	1,464		1,975	100		0		0	10	1	
Somalia Y			2,550	2,697	No data			0	0	ND	90	0	
Sudan Y	11,139	176	4,630	1,248	3,783	0	0	0	0	2	24	0	

101

# Scorecards enhance the profile of NTDs at national level, increase resource commitments and enhance data quality and availability



Republic of Rwanda



Republic of Niger

- The scorecard is used for high-level advocacy, highlighting gaps in national NTD performance. This resulted in the addition of a US\$170,000 line-item being added to the national budget for NTDs.
- Following up on recommended actions led to increased country ownership and institutionalization of NTDs
- NTDs are fully integrated into district and community level activities and MDA operational costs are fully funded by the government.
  - The NTD scorecard was used to highlight gaps and request technical assistance from WHO for the mapping of onchocerciasis elimination.
  - Scorecard analysis revealed reporting errors on leprosy cases and led to the organization of a training
    of DHIS data managers in the regions where the problem was identified.
  - Health provides and CHWs were trained on leprosy early detection in a targeted region.
  - Community mobilization (the 'awareness caravan') on NTD prevention and control was organized in targeted regions.
  - Training of MPs on the use of NTD scorecards which led the MPs to invite the NTD Manager to present the situation of NTDs in Parliament and to add NTDs on the plan of action of MPs

## **Indicator screening criteria**



What is the goal (i.e., desired reaction from HoS) for each indicator For each group of indicators?	r?
Are the data of acceptable frequency and reliability?	
Is the indicator actionable?	
Are data available for at least 10 countries?	
Is there a partner/institution tracking and publishing the data	
Are the data published somewhere and publicly available	
<ul> <li>Is there a partner tracking progress on the indicators and actions being taken to address under perfoming indicators</li> </ul>	

### **CURRENT Indicators in the ALMA Scorecard**

#### Financing

- LLIN/IRS financing 2023 projection (% of need)
- Public sector RDT financing 2023 projection (% of need)
- Public sector ACT financing 2023 projection (% of need)

### Policy

- Signed, ratified and deposited the AMA instrument at the AUC
- Malaria activities targeting refugees and IDPs in the Malaria Strategic Plan
- Country Reporting Launch of Zero Malaria Starts with Me Campaign

### **Resistance Monitoring**

- Drug Resistance Monitoring Conducted (2018-2020) and data reported to WHO
- Insecticide classes with mosquito resistance in representative sentinel sites confirmed since 2010
- Insecticide resistance monitored since 2015 and data reported to WHO
- National Insecticide Resistance Monitoring and Management Plan

### **CURRENT Indicators in the ALMA Scorecard**

#### **Implementation and Impact**

- RDTs/ACTs in stock (>6 months stock)
- LLIN/IRS campaign on track
- Operational LLIN/IRS coverage (% of at-risk population)
- On track to reduce case incidence by  $\geq$ 40% by 2021 (vs 2015)
- On track to reduce case mortality by  $\geq$ 40% by 2021 (vs 2015)

### Tracer Indicators for Maternal and Child Health, NTDs and Covid 19

- Scale of Implementation of iCCM
- Mass Treatment Coverage for Neglected Tropical Disease (NTD index, %)(2021)
- Estimated % of children (0–14 years old) living with HIV who have access to antiretroviral therapy (2021)
- Vitamin A Coverage 2021 (2 doses)
- DPT3 coverage 2021 (vaccination among 0-11 month olds)

### **Recommended action responses**

Reports officially sent to HOS and Ministers of Health, Finance and Foreign Affairs and Ambassadors in Addis and New York

## Recommended actions tracking tool





ALMA Secretariat and partners interaction with country focal points, local and global partners

# Each quarter, countries get recommended actions as follows:

- 1. Countries where the indictors are red e.g. significantly below targets)
- 2. Countries where performance has decreased compared to the previous data

### **Progress on tracking recommended actions**

- 1. ALMA receive good feedback on recommended actions on malaria (100%) and NTDs (>90%)
- 2. Substantial feedback on RMNCAH recommended actions (75%)

Actions linked to the scorecard tool have included increased domestic and donor resources for NTDs, helped to address commodity availability and stock expiry, and have helped to place NTDs higher on the domestic development agenda.

### **Example actions taken as a result of the ALMA Scorecard**





Kenya

- Inclusion of NTDs on ALMA scorecard led to the inclusion of trachoma in the National NTD programme and the elaboration of the new NTD Master plan is ongoing
- The scorecard is reviewed with senior management to assess gaps and review progress on MDA and supply chains, leading to a 588% increase in funding for MDA (from US \$170,000 in 2015 to US\$1,000,000 in 2019)
- MDA for Schistosomiasis and Soil Transmitted Helminthiasis was recently completed and a Lymphatic Filariasis Transmission assessment was conducted



- Scorecard prompted improved coordination of in-country partners and the inclusion of NTDs indicators in the national HMIS system
- Underperformance on the Coverage Index led to an additional US\$500,000 in domestic funding to improve MDA supply chain, distribution, and NTDs control & elimination activities



- The scorecard and recommended actions triggered a root cause analysis of lower NTD coverage and the development of solutions to increase performance
- A survey of trachoma identified one district that was endemic and a follow-up MDA campaign increased coverage to 95%

### NATIONAL NTD SCORECARDS

# ALMA has supported countries in the implementation of national scorecards

National scorecard management tools are countryowned tools used to:

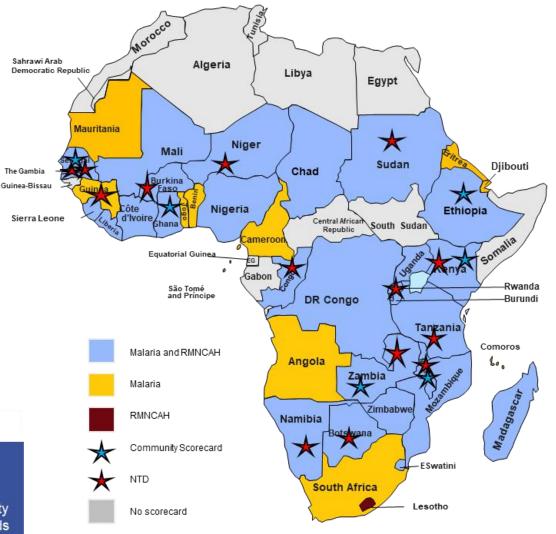
- Track national and sub-national real time health data against priority indicators aligned to national plans
- Identify bottlenecks or gaps
- Increase accountability
- Enhance decision-making to drive action

They are integrated into existing accountability and management processes

Drive action including addressing upsurges, stock-outs, task-shifting, filling resource gaps, etc.

Used at national, subnational and community levels (quality of care) and with political and technical stakeholders





#### Lessons leant on the use of continental and national NTD scorecards

- The inclusion of the NTD indicator in the continental ALMA scorecard for accountability and action has significantly increased the visibility of NTDs at country level.
- In countries, following up on the recommended actions arising from scorecard analysis has helped countries by increasing the attention of senior leadership to NTDs.
- Scorecard analysis at country level has supported the identification of reporting errors, bottlenecks and the design of country-led solutions.
- The use of the scorecard as an advocacy tool has helped to increase resource allocations from government and partners.
- Collaboration with partners at country, continental and global levels is key for success of the grant implementation.



#### **Ongoing discussion to add NTD indicators in the ALMA scorecard**

- Consultations to have more NTD indicators to add into the ALMA scorecard:
- The Regional NTD Meeting on NTDs organized by AUC in collaboration with ALMA joined AUC and Regional Economic Communities (East Africa Community and Economic Community of Central African States (ECCAS)
- Joint workshop (ALMA-Kikundi) during the 14<sup>th</sup> NNN Conference in Dar es Salaam
- Meetings with AUC, UTC and other partners to discuss which indicators to support monitoring the implementation of the NTD Continental framework
- Suggested indicators:

110

- National Budget-line allocated to NTD Programme
- % domestic resources allocated to NTDs
- Removal of user fees for NTD services
- % of NTD indicators captured into HMIS/DHIS2



### Thank you

For more information, please contact:

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iumulisa@alma2030.org



### Discussion & RPRG recommendations



World Health Organization



### Group Photograph





### Lunch Break (60 min)



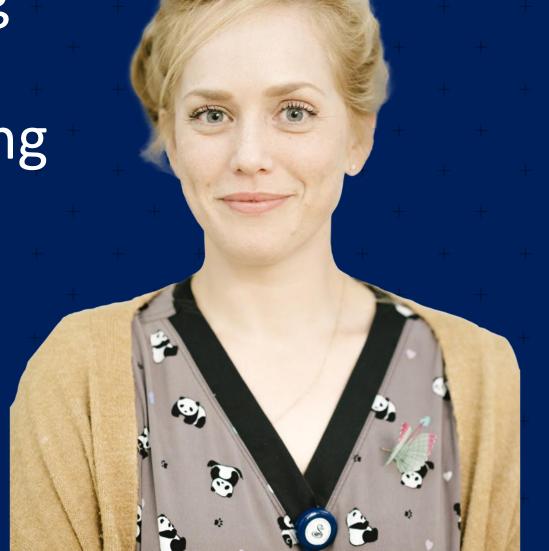
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114

Session 6: Information session on cross-cutting activities: Programme implementation planning

World Health Organization African Region



### Modelling to guide programmatic decision making

#### Dr. Mutono Nyamai

Center for Epidemiological Modelling and Analysis (CEMA), University of Nairobi (Kenya)





# Epidemiological models to support planning and implementation of Kenya's schistosomiasis elimination plan

Mutono Nyamai, PhD

University of Nairobi

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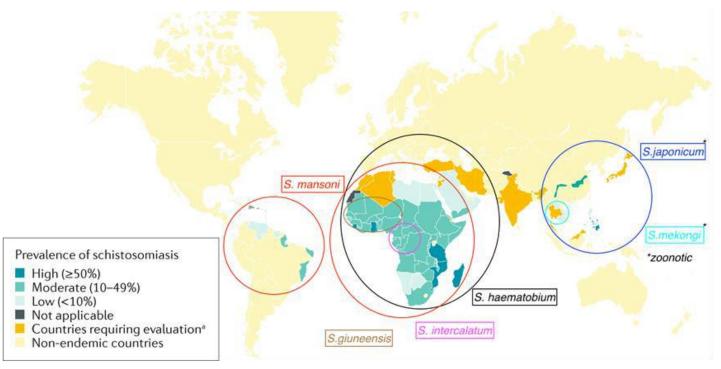


Schistosomiasis: a neglected tropical disease caused by parasitic worms called *Schistosomes* 

Human transmission through dermal contact with infectious larvae stage of the worm

- Larvae develop in the human host, copulate and produce eggs which are released through faeces or urine
- Eggs hatch and are taken up by freshwater snails where they develop to infective larvae and the cycle continues

In 2016, the disease accounted for 1.9 million disability adjusted life years

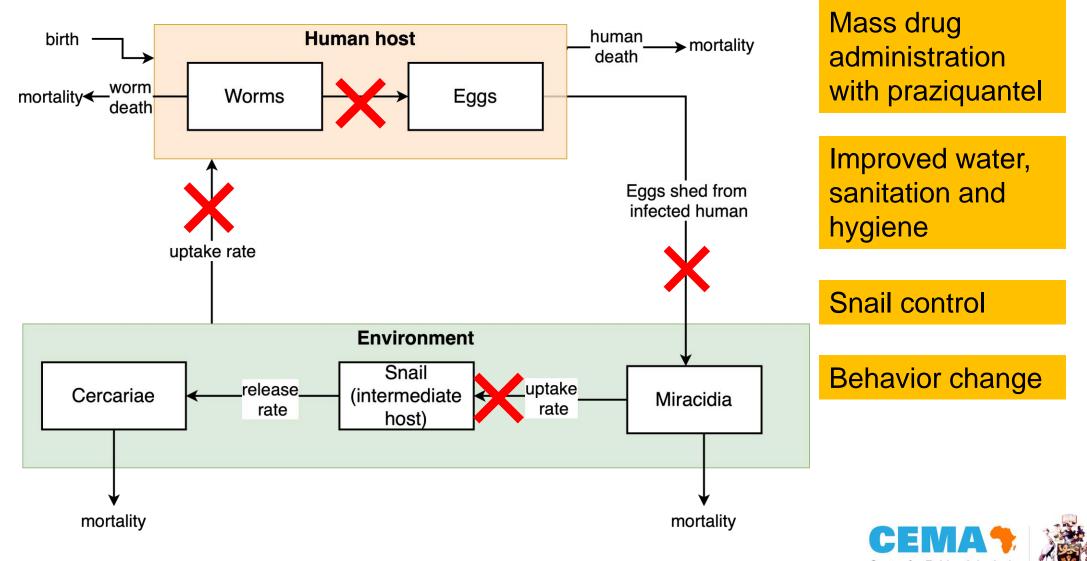


McManus et al., 2018 https://doi.org/10.1038/s41572-018-0013-8

GBD 2016 DALYs and HALE Collaborators, 2017 https://doi.org/10.1016/S0140-6736(17)32130-X

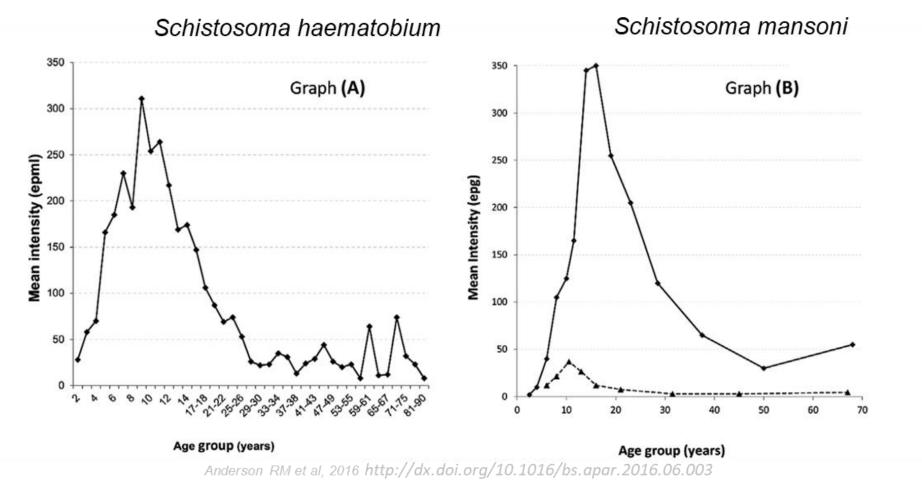


#### Schistosome life cycle



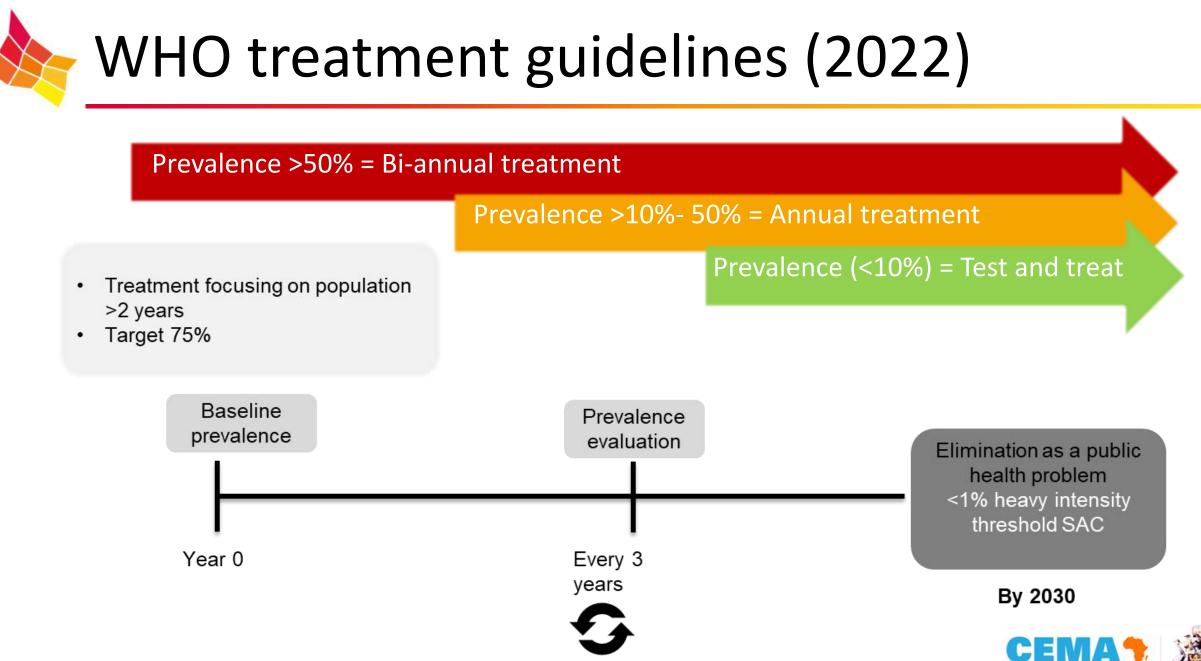
Center for Epidemiological Modelling and Analysis

#### Intensity of infection



Intensity profile before (solid line) and after (dashed line) a round of mass drug administration School aged children (5-14 years) have a higher likelihood of infection



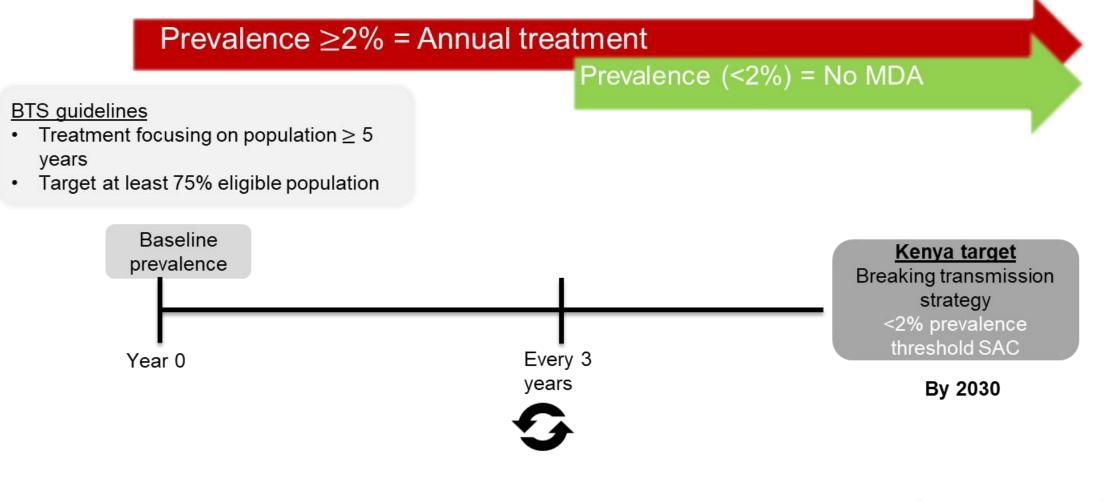


WHO guidelines, 2022 <a href="https://www.who.int/publications/i/item/9789240041608">https://www.who.int/publications/i/item/9789240041608</a>

Center for Epidemiological Modelling and Analysis



### Kenya elimination targets: Breaking transmission strategy (BTS)

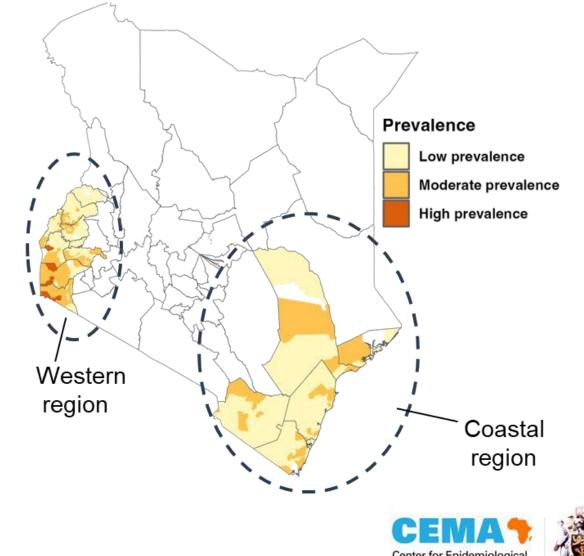




### SCH prevalence in Kenya

- Two species found in Kenya:
  - S. haematobium (Coastal region)
  - S. mansoni (Western region)
- Currently, 15 of 47 counties in Kenya
   (32% of the population) are receiving treatment
- There are 478 implementation units which are:
  - Low prevalence: 74% (n=356)
  - Moderate prevalence: 24% (n115)
  - High prevalence: 2% (n=7)

\* Survey to ascertain the endemicity status of the other counties (in white) is to be done in 2024



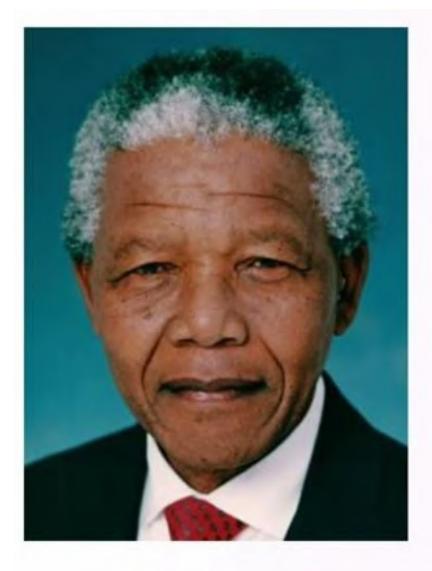
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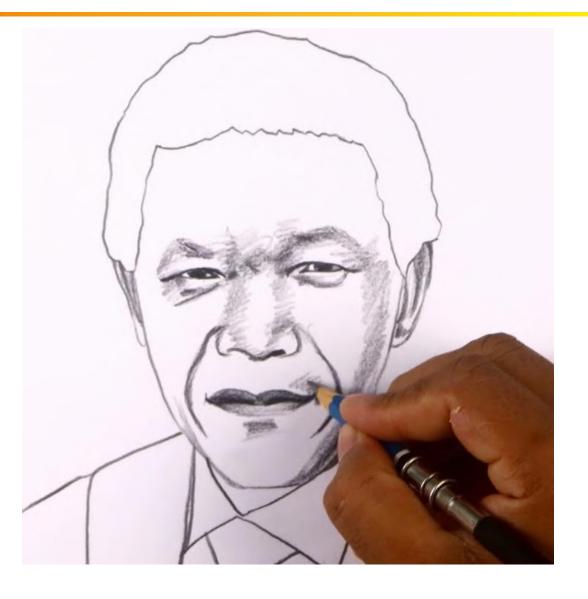
### Modelling question from Kenya NTD program

- How many treatment rounds for schistosomiasis are required to achieve:
  - Kenya target of breaking transmission strategy: <2% prevalence in SAC</li>
  - WHO target of elimination as a public health problem <1% heavy intensity in SAC
- What would be the effective treatment strategy to achieve breaking transmission strategy by 2030









#### Model world

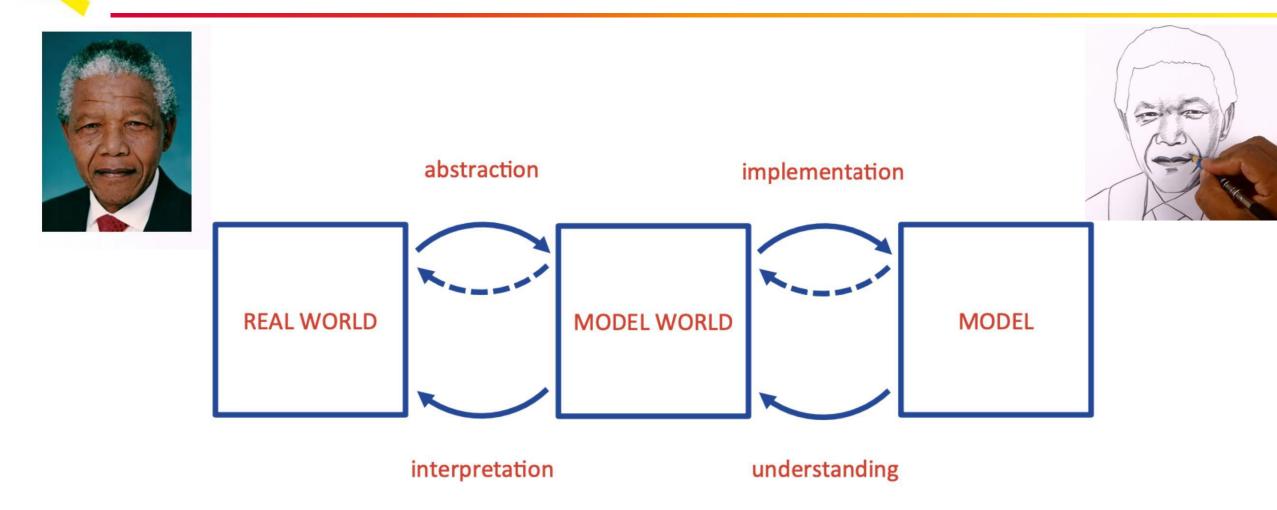
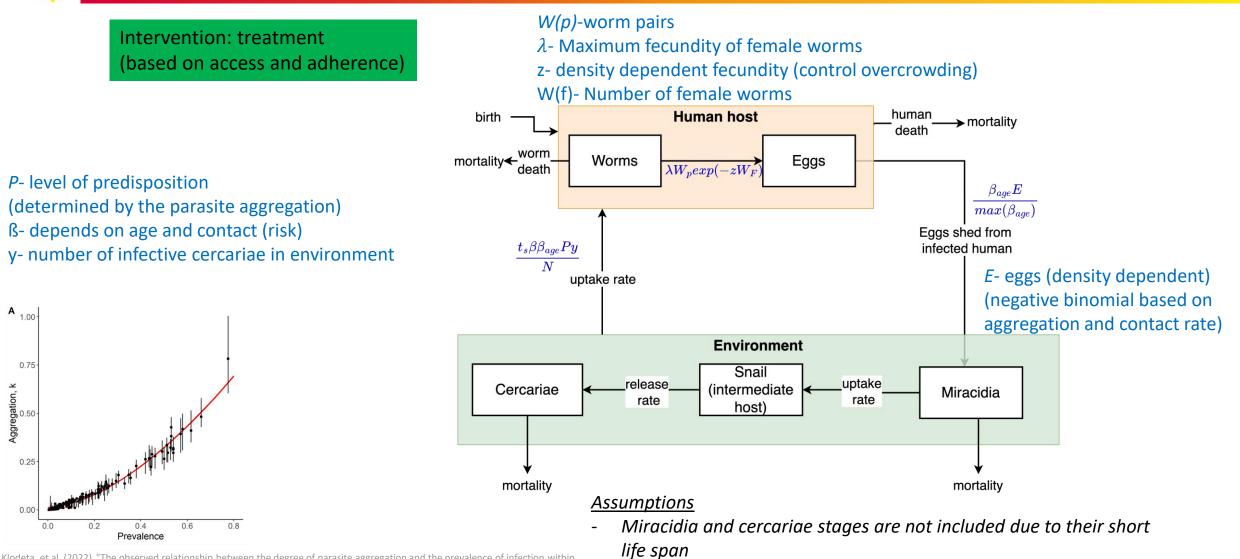


Figure courtesy of the International Clinics on Infectious Disease Dynamics and Data (ICI3D) Program https://doi.org/10.6084/m9.figshare.5044606.v3

### The model framework



Kura, Klodeta, et al. (2022) "The observed relationship between the degree of parasite aggregation and the prevalence of infection within human host populations for soil-transmitted helminth and schistosome infections." TRSTMH.

Graham et al, 2021: https://doi.org/10.1016/j.idm.2021.01.010

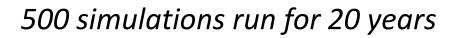
• Adherence is random, based on the population coverage

- Treatment reduces worm burden (86.3%) – one time decrease



### Model assumptions

- Some individuals are more predisposed to uptaking cercariae
- Exposure to infection depends on an individual's risk and their age, with the rate generally highest in SAC.
- An individual's predisposition, adherence and access to intervention are fixed for the remainder of their life in the population
- MDA treatment reduces the worm burden one-time
- No immunity is acquired for individuals over time
- Everyone who requires treatment has access to it
- Proportion of individuals who are never treated: 0%
- Treatment coverage: 75 90%





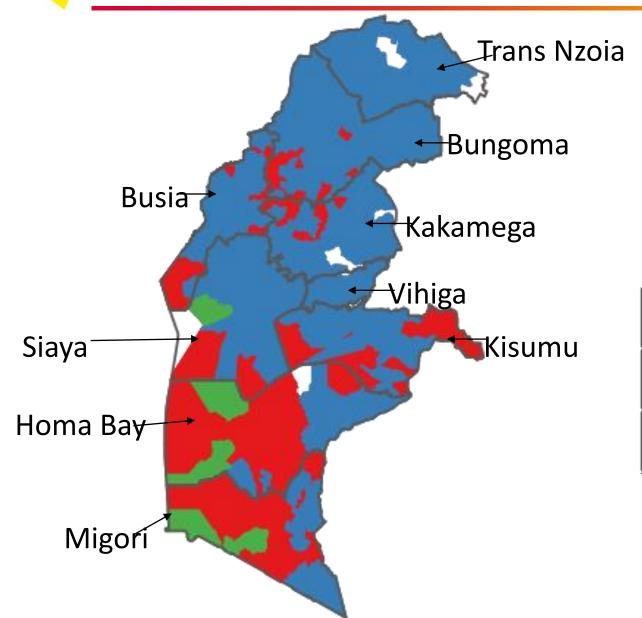
#### Years taken to achieve the elimination targets

Prevalence	Treatment	Elimination strategy	Community treatment (5+)			Treatment of SAC (5-14)				
		Elimination strategy	75%	80%	85%	90%	75%	80%	85%	90%
Low (<10%)	Annual	BTS	5	4	4	4	5	5	4	4
		EPHP	3	2	2	2	3	2	2	2
Moderate (10-50%)	Annual	BTS	6-7	5-6	4-6	4-5	6-9	5-7	5-6	4-6
		EPHP	3-4	3-4	2-4	2-3	4-5	4	3	3
High (>50%)	Annual	BTS	8-19	7-16	6-13	5-11	16 - >20	15 - >20	14 - >20	13 - >20
		EPHP	5-13	4-10	4-8	3-7	14 - >20	13-19	13-18	13-18
High (>50%)	Biannual	BTS	4-6	4-6	4-5	3-5	13-16	12-15	12-14	11-14
		EPHP	3-5	3-5	3-4	3	9-12	9-11	8-10	8-10

Green are areas that can achieve the target by 2030 Orange are not able to achieve the target by 2030



#### **Proposed treatment strategy**



#### Proposed treatment strategy

Annual treatment of 5+ years with 75% coverage Annual treatment of SAC (5-14 years) with 75% coverage Bi-annual treatment of 5+ years with 75% coverage





#### **Treatment scenarios**

	Treatment population	Treatment coverage	Treatment frequency	Proportion never treated
Scenario 1: (Current treatment)	5+ years	75%	Annual	15%
Scenario 2: (Improved treatment efficiency)	<ul> <li>Prevalence ≤25%: 5-14 yrs</li> <li>Prevalence &gt;25%: 5+ yrs</li> </ul>	75%	<ul> <li>Prevalence≤50%: annual</li> <li>Prevalence &gt;50%: biannual</li> </ul>	15%
Scenario 3: (Optimal treatment)	<ul> <li>Prevalence ≤25%: 5-14 yrs</li> <li>Prevalence &gt;25%: 5+ yrs</li> </ul>	75%	<ul> <li>Prevalence≤50%: annual</li> <li>Prevalence &gt;50%: biannual</li> </ul>	5%







Time to elimination (years)				
Prevalence:	Annual treatment of population 5+ years, with 15% never treated	Treat adults in higher-moderate and high prevalence areas, with 15% never treated	Treat adults in higher-moderate and high prevalence areas, with 5% never treated	
Low prevalence (<10%)	9	9	4	
• Lower-moderate (10% - 25%)	13	15	10	
• Higher-moderate (26% - 50%)	13	13	9	
• High (>50%)	>20	>20	>20	
<ul> <li>High (&gt;50%) – Biannual</li> </ul>	-	20	16	
% of population for which SCH is eliminated within 10 yrs	70%	70%	96%	



	Time to elimination (years)				
	Annual treatment of population 5+ years	Treat adults in higher-moderate and high prevalence areas, with 15% never treated			
	15% Never Treated	15% Never Treated	5% NT		
• Low (<10%)	9	9	4		
<ul> <li>Lower-moderate (10% - 25%)</li> </ul>	13	15	10		
• Higher-moderate (26% - 50%)	13	13	9		
• High (>50%)	>20	>20	>20		
• High (>50%) – Biannual	-	20	16		
% of population for which SCH is eliminated within 10 years	70%	70%	96%		
Number of PZQ tablets required	32 million	20 million	7 million		
Estimated total delivery cost	\$30 million	\$15 million	\$12m (including \$3m to increase coverage)		







- Elimination as a public health problem and the breaking transmission strategy would be attained by 2030 through:
  - Low prevalence areas: treating SAC (5-14 years), with ≥ 75% treatment coverage of eligible population
  - Moderate prevalence areas: treating SAC (5-14 years with  $\ge$  80% coverage of eligible population OR treating community (5+ years) with  $\ge$  75% coverage
  - High prevalence areas: treating community (5+years) twice a year with ≥ 75% coverage
- Proportion of population never treated has an impact on achieving the elimination targets



### Acknowledgements





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- Ms. Mumbua Mutunga



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- Prof. Roy Anderson
- Dr. Klodeta Kura

Imperial College

London

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BILL& MELINDA

THE

Additional stakeholders



UND



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- Dr. Andreia Vasconcelos

Czafing

Erasmus MC

Erasmus University Medical Centre

Dr. Luc Coffeng



### Thank you

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### NTD/PC Medicines Supply Chain Management

**LE Anh Tuan** 

NTD PC Supply Chain Officer NTD Dept-WHO/HQ





- 1. What are the steps of the Medicine Supply Chain?
- 2. What are the main challenges?
- 3. Possible Undistributed (unaccounted) Issue
- 4. Pending 2024MDA PC Medicine Requests
- 5. Recommendations to Member State /WHO/ pharma donor



#### 1. What are the Key Steps of the Supply Chain Process? (1/2)

- 1. Medicine Forecast
- 2. Medicine Application submission
- 3. Medicine Application Review/Revision/Approval
- 4. Medicine **Supply** (external part)
  - PO raising: PO request & PO raising
  - PO received/acknowledged by the donors
  - Shipping greenlight (tax exemption doc, import permit etc)
  - Booking flight/vessel
  - Customs clearance:
  - Transportation to national warehouse



#### What are the Key Steps of the Supply Chain Process? (2/2)

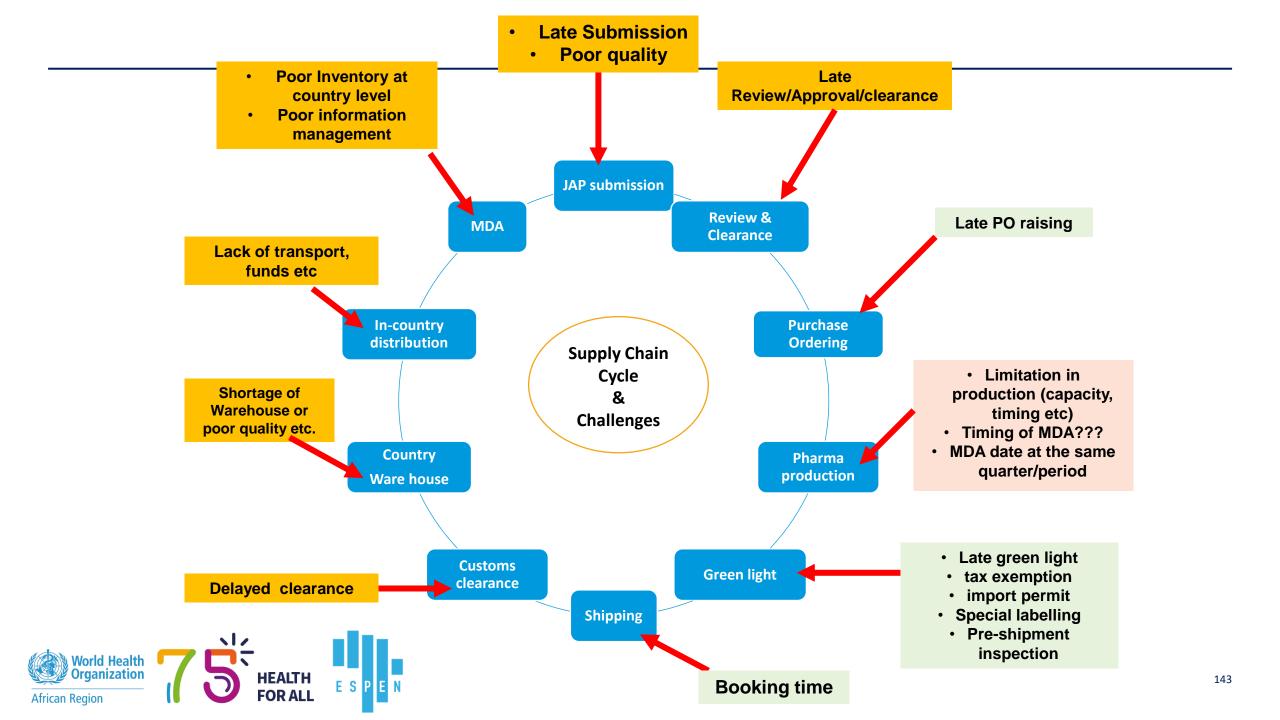
- 5. In-country Medicine Management
  - a) In-country **Supply** (<u>Nat'l Warehouse</u> to Tx points)
  - b) Medicine **Distribution** (MDA/mass treatment)
  - c) Medicine **Distribution Report** 
    - treatment & impact
    - remaining balance

The movement of the medicine is the backbone of NTD PC Programme!



#### **2. Challenges of the Process**





**3. Possible Undistributed Medicine (unaccounted issue)** 

## The recipient needs to fully account all the donated medicines that they have received.



## **Undistributed Example**

COUNTRIES	Year	# ALB/STH tablets donated via WHO	# MBD tablets donated via WHO	# Tablets distributed to SAC as per official report	# Tablets expired/ Lost	Theoretical BALANCE of tablet donated via WHO by selected yea	PO number	Expiry Date earliest
Kenya	2017	5,495,000		4,512,185		982,815	201519198	30-06-21
Kenya	2018	6,445,000				7,427,815	201818674	11-12-21
Kenya	2019	6,754,000	2,996,000	1,189,125		15,988,690	202257663	30-06-24
Kenya	2020		7,072,000	0		23,060,690	202582562	31-03-23
Kenya	2021		17,356,000	4,941,000		35,475,690	202624258; 202647688	31-07-23
Kenya	2022			4,883,000		30,592,690		
Kenya	2023			2,300,000		28,292,690		



## 4. AFRO's pending 2024MDA Requests

African Region

		Possible Undistributed issue	Pending Data Review	endemicity MDAround unmatched	No country reply Pending with Country	Lack or unconfirmed of funds	Other Reasons/Issues
1	Eswatini					x	
2	Botswana					x	
3	Ethiopia					x	
4	Ghana						х
5	Malawi					x	
6	Tanzania/M		х				
7	Zambia	х			х		
8	Mozambique					x	
9	Nigeria	х	х				
10	Rwanda		х				
11	Gambia	х				x	
12	Zimbabwe					x	
13	Eritrea	х				x	
14	Kenya	x					
15	Guinea Bissau					x	
16	Congo					Х	
17	DRC		х				
18	Equatorial Guir	x			x		

## **5. Recommendations to Member States for the Medicine Request**

#### • For Medicine Request approval

- Timely submission:
  - 10 months before its first planned MDA date
- Good quality
  - Total & targeted population up to date
  - Endemicity level up to date (baseline/impact data)
  - Proposed MDA round in line with endemicity
  - Minimal unaccounted quantity
- Secure enough funds

### For donated shipment

- Secure the warehouse space
- Quick report of the MDA
- Quick report of the inventory



## **6. Recommendations to WHO**

- Closely working with Member States for the best possible Request/Report; for timely submission; and fund raising.
- Quick review/revision/clearance of the Request (RO-HQ)
- Quick PO processing (HQ)
- Timely facilitation of the GreenLight, incl tax exemption and warehouse availability to avoid demurrage charge (WHO/CO as consignee)
- Close follow-up with donors/its forwarding Co. and Member State <u>to make sure a</u> <u>timely delivery</u> (WHO all levels)



## **7. Recommendations to Pharma Donors incl DHL**

- Quick PO process;
- Secure sufficient API, maintain continuous production (avoid out of stock)
- Shorten waiting time (incl booking time; shipment process, etc)
- Flexibility on mode of shipment (by sea vs by air)



## Thank you

For more information, please contact:

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# Discussion & RPRG recommendations



World Health Organization



# Health Break (20 min)



# Summary of recommendations & actions

**Rapporteurs** 

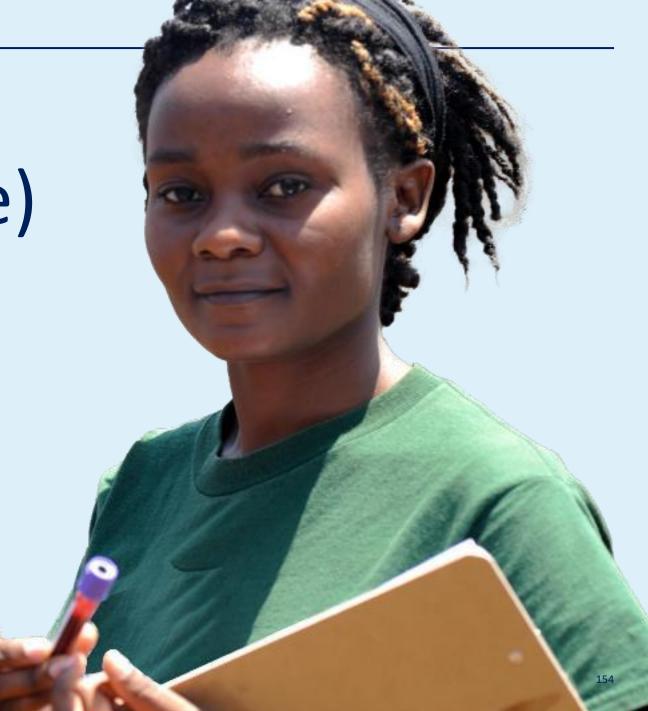




# Brief Meeting Evaluation (online)

[LINK provided via email]





# Vote of Thanks & Closing Remarks

**RPRG Co-Chairs** 

ESPEN





## **Meeting Ends**



rican Region

HEALTH ESPEN FOR ALL

156