



Global Fund support to scale-up of new nets

APMEN Tech Talk

13 November 2023



A young mother and child under a net in a rubber plantation in Myanmar

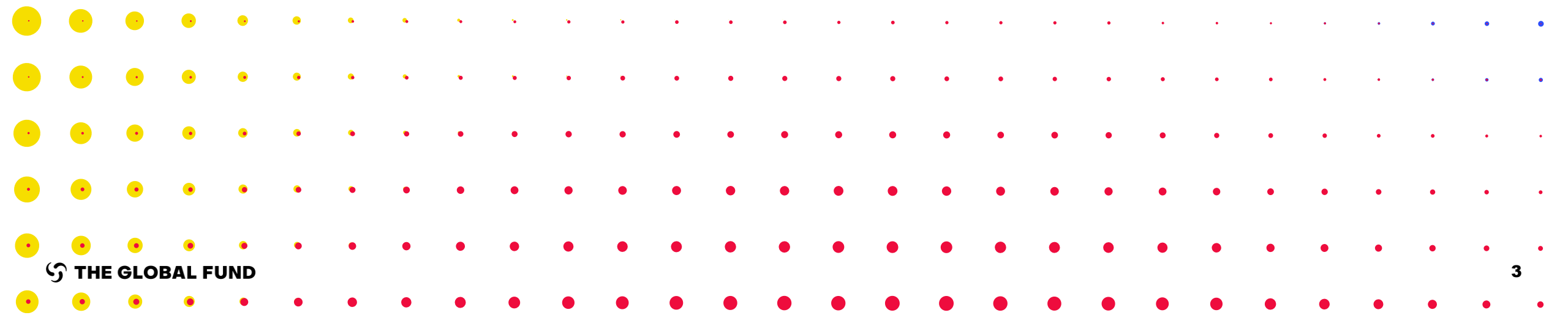
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1

Challenges to achieving effective malaria control



Malaria control is facing a range of biological threats



Pyrethroid resistance

- Resistance to pyrethroids, the mainstay of malaria vector control, is entrenched and widespread
- New nets (which ~halved cases compared to standard nets in trials) are higher cost; limited supplier base; insufficient innovation pipeline.

Pfhrp2/3 gene deletions

- Documented in Asia, Middle East and widespread in SSA; 80% prevalence among symptomatic patients in Djibouti, Eritrea and Peru
- Alternative tests are more expensive; supply unstable; innovative pipeline is sparse

Drug Resistance

- Treatment failure and delayed parasite clearance increasingly seen – and spreading
- Main alternative first-line ACTs* are 2-3 times higher than current standard**; unstable supplier base due to low demand

...as well as a range of programmatic and external threats

Programmatic issues

Durability: Challenging to maintain coverage given ITN durability

Appropriateness: ITNs or IRS not always appropriate to the family or vector context

Reach: Reaching the last mile is challenging

External issues

Population growth: 41% population growth in Global Fund supported countries since 2002

Insecurity: 24 malaria countries classified as COE are home to 76% of malaria cases

Climate: Climate change and extreme weather events drive major upsurges

Financing: Unprecedented fiscal pressure



Mujahid Ali, a local fisherman with his family, Manchar lake District on March 3, 2023 in, Sindh, Pakistan. Displaced following the Pakistan floods that led to a massive rise in malaria cases.

Improving effective vector control

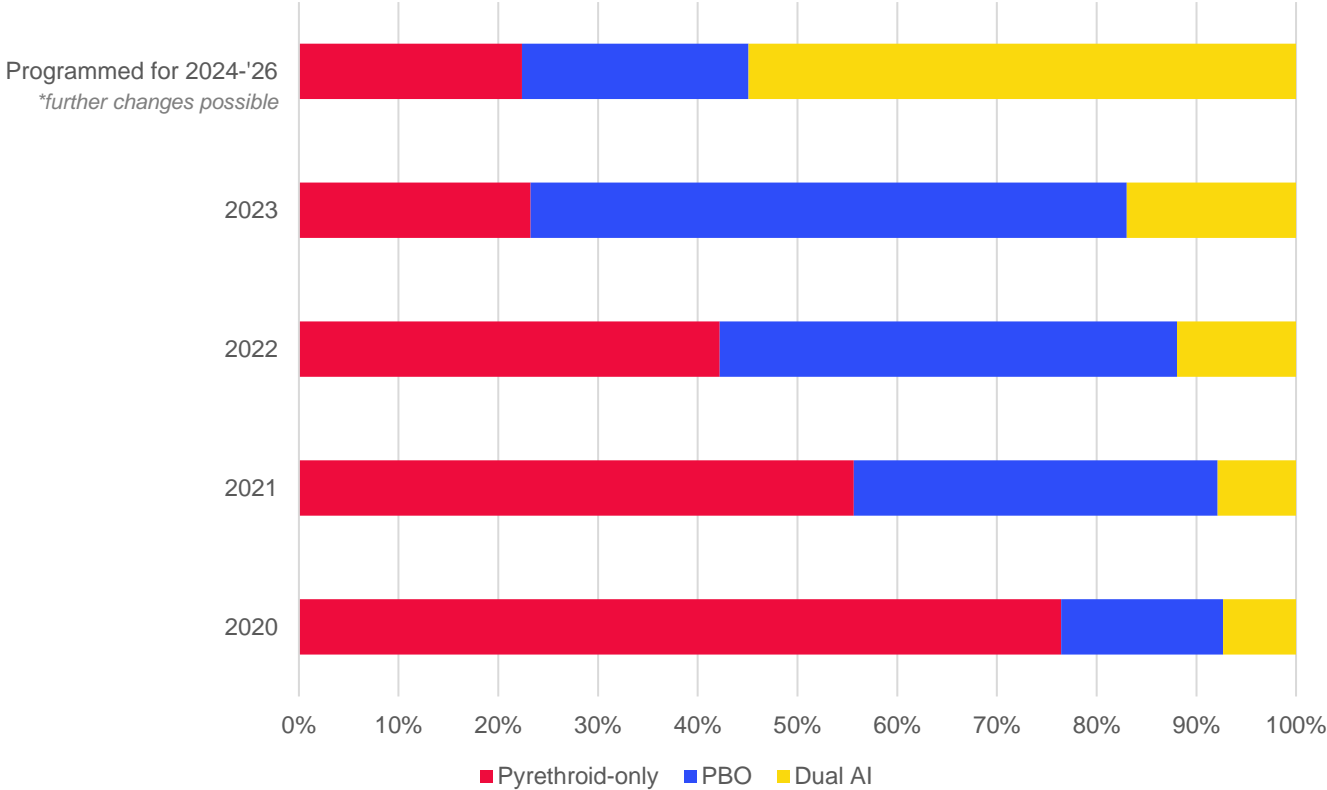
- Moving to more effective ITNs
 - Trial data showed ~half the malaria cases in areas receiving pyrethroid-chlorfenapyr nets compared to pyrethroid only nets.
 - March 2023 – strong WHO recommendation for the use of pyrethroid-chlorfenapyr nets in areas of pyrethroid resistance.
- Continuing to support alternative methods where appropriate, especially in specific community contexts
- Supporting efforts to understand most effective prioritization decisions



4-year-old Saw Ye Lin Aung and his sisters Aye Cho Myint (11) and Naw Aye Khine (13) sit under a mosquito net in their home in Taung Kalay, Kayin State, Myanmar.

Progress in moving to better nets

Proportion of nets bought using Global Fund financing by net type

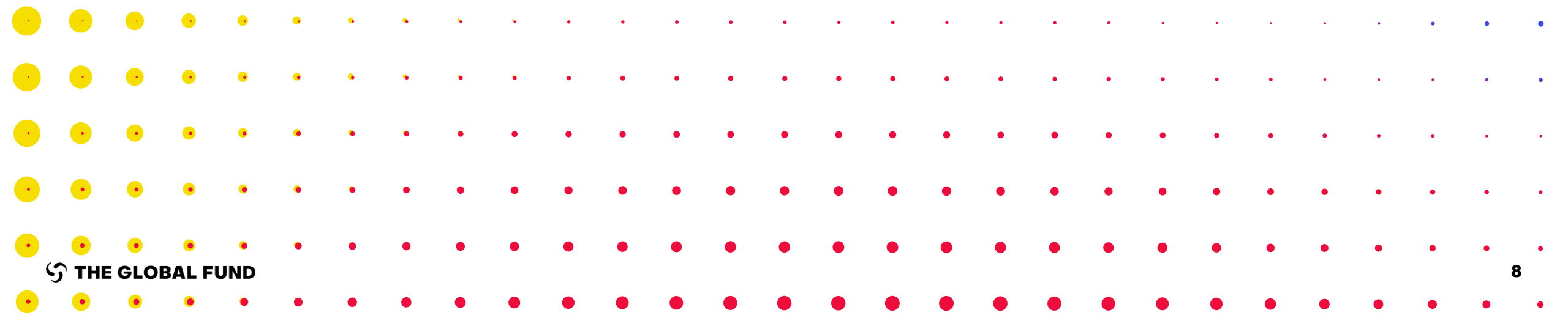


- Strong shift to ‘better nets’
 - Moving away from pyrethroid only to a ‘better net’ in areas of pyrethroid resistance
 - Strong 2023 WHO recommendation, previous catalytic investment and GC7 negotiated pricing - enable rapid scale-up of Dual AI
- Continued pyrethroid-only deployments
 - Areas of pyrethroid susceptibility
 - Areas with budget constraints - **programmes facing difficult trade-off decisions between effectiveness, geographic coverage and maintaining coverage over time**



2

New structure of pricing to support scale up



New pricing structure focuses on four most commonly used sizes and colours

Dual AI CFP ITNs – prices for commonly used specifications

[Web update](#) - [Reference Price List](#)

Insecticide-treated bednet (ITN) Reference Price list for budgeting purposes. All prices FOB in USD.						
DIMENSIONS	PYRETHROID-CHLORFENAPYR(CFP Dual a.i.)*		PYRETHROID-PBO		PYRETHROID-ONLY	
	(Colour)	A	B	C	D	E
Product description (Length x Width x Height in cm)	(Colour)	Standard ITN Package (includes hooks, strings and bag)*	ITN only (no accessories)	Standard ITN Package (includes hooks, strings and bag)*	ITN only (no accessories)	Standard ITN Package (includes hooks, strings and bag)*
Commonly used sizes						
180x160x150	White	2.56	2.32	2.54	1.80	1.95
	Light blue	2.65				
180x190x150	White	2.84	2.50	2.71	1.89	2.08
	Light blue	2.94				
Other sizes						
The Global Fund strongly encourages countries to adopt one of the four sizes listed above given additional costs for other sizes. For Dual a.i. nets, there will be significant additional costs (between 15 – 25%) and longer lead times. Pricing for other sizes can be found at this link .						
Customization						
Any changes in specifications to those described as the Standard ITN Package (see below) including alternative bale size, different ITN color, more strings, longer strings, multicolor printing of logos on label and/or bag, user instructions leaflet, etc will incur additional costs.						
*Standard ITN Package includes:						
Number of hooks				6		
Number of strings				6		
String length (meters)				2		
Colour				White or light blue		
Individual bag				Standard bag		
Packaging				Standard care label		
Bale size				50		
**Pyrethroid-Chlorfenapyr ITNs (Dual a.i.) pricing						
The four sizes above are eligible for this special reduced pricing if procured as part of a standardized specification which includes a standard label, a standard bag, and standard accessories including 6 hooks and 6 strings (2m). These prices are subject to special contracting arrangements as part of an innovative operating model being rolled out between Global Fund and Suppliers.						

- Enabled manufacturing move to a make-to-stock model, keeping prices down and reducing lead times by up to 50% (5-6 months)
- Alternative specifications are 15 – 20% (US\$ 0.4 - 0.5) more expensive - and require additional internal approvals for Global Fund grants
- Efficiencies generated by these prices and accelerated lead times have improved the effectiveness of the GC7 grants.

Insecticide-treated bednet (ITN) Reference Price list for budgeting purposes. All prices FOB in USD.

DIMENSIONS	PYRETHROID-CHLORFENAPYR (CFP Dual a.i.)*		PYRETHROID-PBO		PYRETHROID-ONLY	
	(Colour)	A	B	C	D	E
Product description (Length x Width x Height in cm)	(Colour)	Standard ITN Package (includes hooks, strings and bag)*	ITN only (no accessories)	Standard ITN Package (includes hooks, strings and bag)*	ITN only (no accessories)	Standard ITN Package (includes hooks, strings and bag)*
Commonly used sizes						
180x160x150	White	2.56	2.32	2.54	1.80	1.95
	Light blue	2.65				
180x190x150	White	2.84	2.50	2.71	1.89	2.08
	Light blue	2.94				

Other sizes						
180x160x170	White	3.20	2.51	2.71	1.89	2.07
	Color	3.40				
180x160x180	White	3.34	2.61	2.79	1.93	2.13
	Color	3.56				
180x190x160	White	3.38	2.64	2.84	1.95	2.16
	Color	3.61				
190x180x170	White	3.53	2.74	2.93	2.00	2.22
	Color	3.76				
190x180x180	White	3.67	2.84	3.02	2.07	2.30
	Color	3.91				
210x190x180	White	4.00	3.08	3.26	2.29	2.51
	Color	4.26				

Customization

Any changes in specifications to those described as the Standard ITN package including alternative bale size, different ITN color, more strings, longer strings, multicolor printing of logos on label and/or bag, user instructions leaflet, etc will incur additional costs.

*Standard ITN Package includes:	
Number of hooks	6
Number of strings	6
String length (meters)	2m for Dual AI nets 1.5m for Pyrethroid-PBO and Pyrethroid-only
Colour	White or light blue
Bag	Standard bag
Packaging (for Dual AI nets only)	Standard care label
Bale size	50

****Pyrethroid-Chlorfenapyr ITNs (Dual a.i.) pricing**

The four sizes commonly used sizes listed above are eligible for this special reduced pricing if procured as part of a standardized specification which includes a standard label, a standard bag, and standard accessories including 6 hooks and 6 strings (2m). These prices are subject to special contracting arrangements as part of an innovative operating model being rolled out between Global Fund and Suppliers.

Efficiencies generated by these prices and accelerated lead times have improved the effectiveness of the GC7 grants

Malawi:

CFP Dual AI efficiencies of ~US\$13.2m (14% of the GC7 malaria allocation) planned to cover the **roll out of school-based CFP Dual AI distribution in 4 former IRS districts** to mitigate potential impacts of the change in Vector Control strategy.

Cote d'Ivoire:

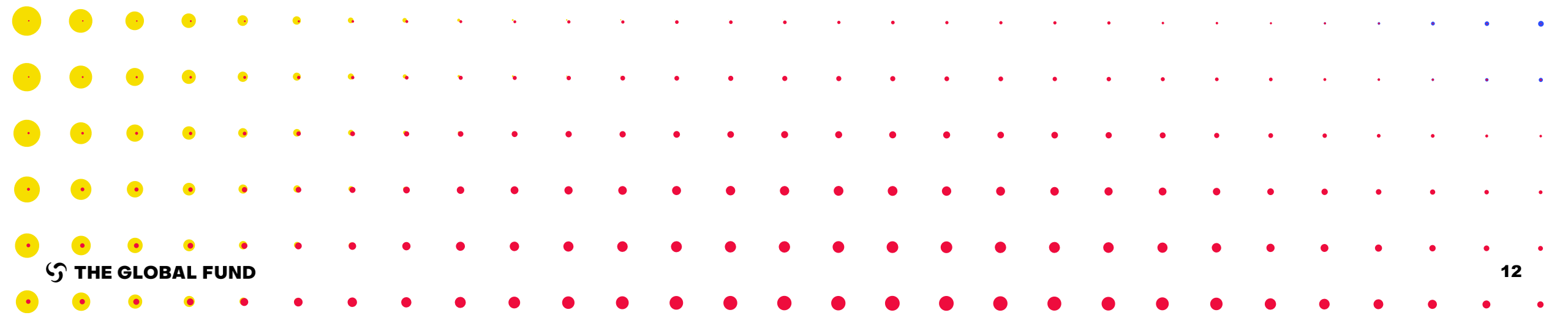
CFP Dual AI efficiencies of ~US\$7.1m (6% of the GC7 malaria allocation and 12% of the total Malaria HP budget) **planned to support expansion of vector control into additional high incidence areas and introduction of SMC in 3-4 districts.**

Final plans pending finalisation of grant making and GAC approval



3

Wider issues



Importance of use contexts



Temporary shelter, Palawan, Philippines

- The most commonly procured net specifications are not the answer in all settings
- In some settings people need different kinds of nets that work for their lifestyle
- Hammock nets, other customized nets, are financed in specific contexts

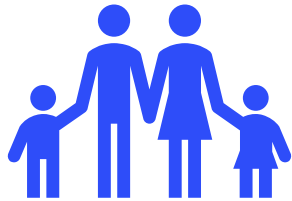
Individual packaging of ITNs

- Bulk packaging – without individual bags - reduces waste and waste management costs
- To safe-guard quality CFP Dual AI nets are only available *with* individual packaging – raising environmental concerns
- CFP Dual-AI nets currently only available in individual bags but further investigations are underway to better understand the needs

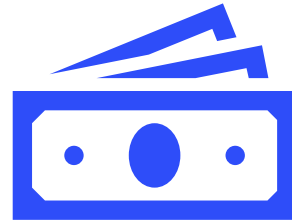


Tar Moe, a rubber plantation worker in Kawthaung, Myanmar collecting a mosquito net

Which ITNs are appropriate where pyrethroid-resistance is not yet entrenched?



Pyrethroid-only nets are still saving lives; but other nets may help slow resistance emergence and save more lives in the long run



But, short term incremental cost-effectiveness of more expensive nets is not clear, and budgets are tight and coverage targets are still not achieved



On-going conversations with programmes to understand opportunities and challenges

Links to additional information

- WHO Recommendation 14 March 2023:
<https://www.who.int/publications/i/item/9789240069428>
- Global Fund reference price list for ITNs:
https://www.theglobalfund.org/media/5861/psm_linreferenceprices_table_en.pdf
- Global Fund web update on maximizing impact through commonly used specifications:
<https://www.theglobalfund.org/en/updates/2023/2023-10-11-accelerating-the-introduction-of-new-nets-through-global-fund-grants/>
- Press release on the Revolving Facility:
<https://www.theglobalfund.org/en/news/2023/2023-08-22-global-fund-announces-new-mechanism-increase-access-more-effective-mosquito-nets-prevent-malaria/>