



The Alliance for
Malaria Prevention

AMP Annual Partners Meeting: Summary outcomes

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AMP Core Group member

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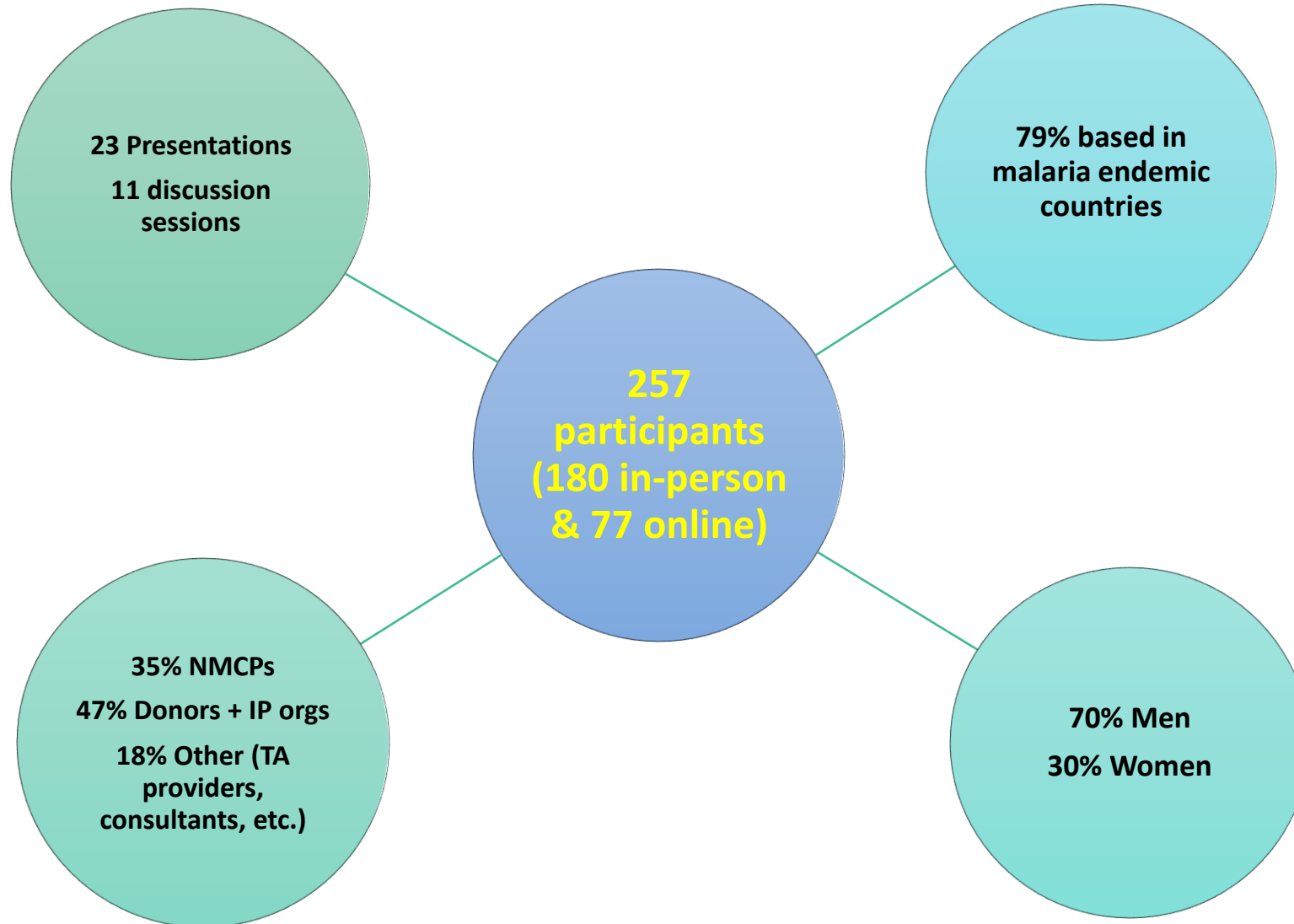
2024 Themes

- **Stratification, sub-national tailoring and prioritization:** Optimization of vector control in the context of limited resources (DAY 1)
- Successes and challenges in **adapting the ITN approach** (DAY 2)
- **Climate, waste and ITNs** (DAY2)

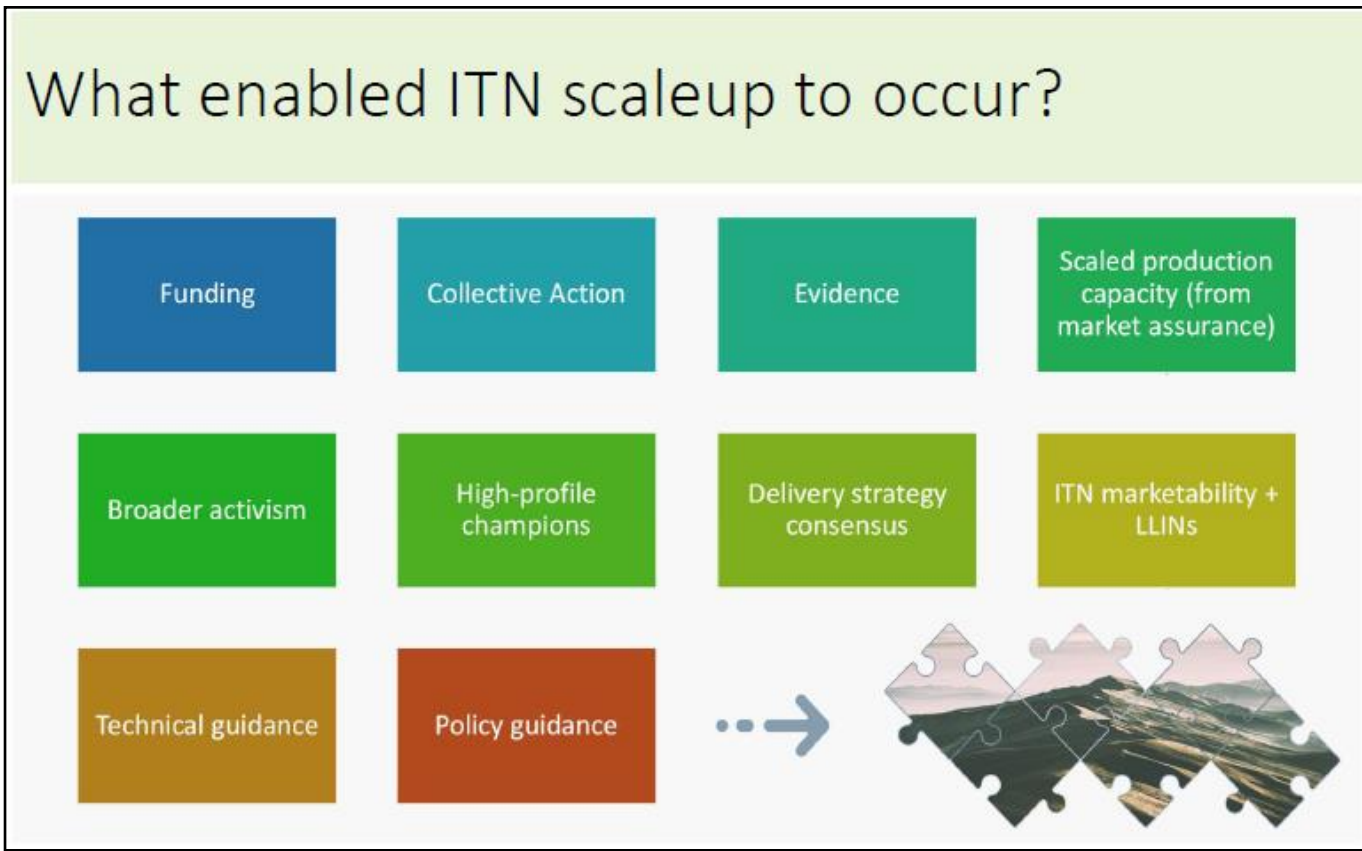
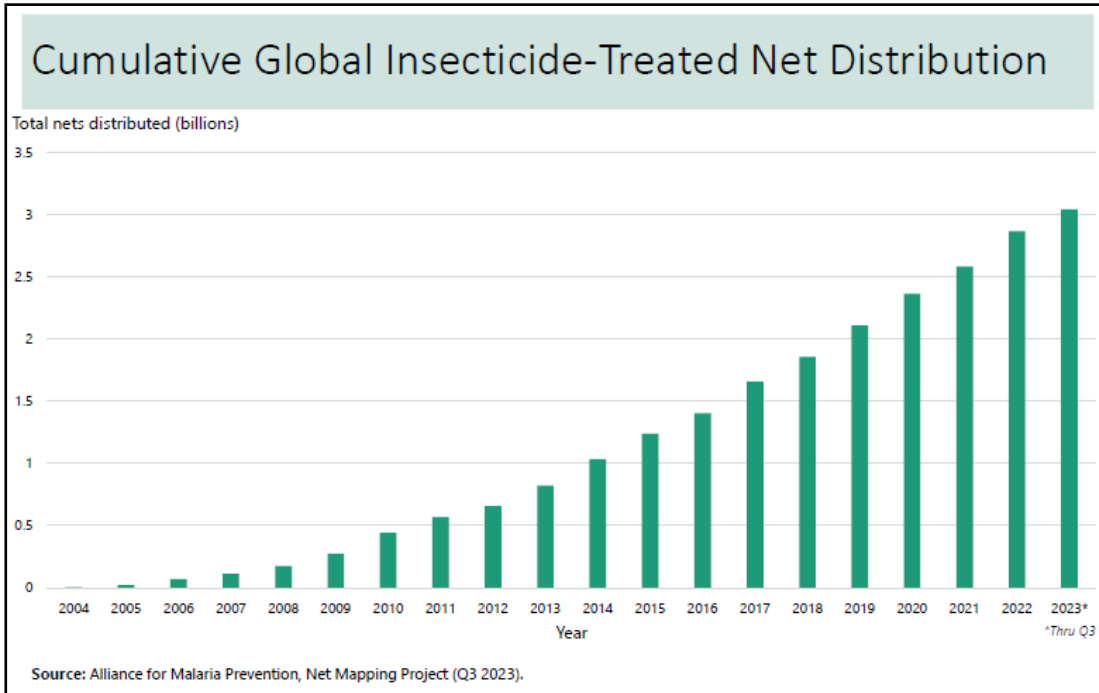


Photo credit: Dominique Guinot/CRS

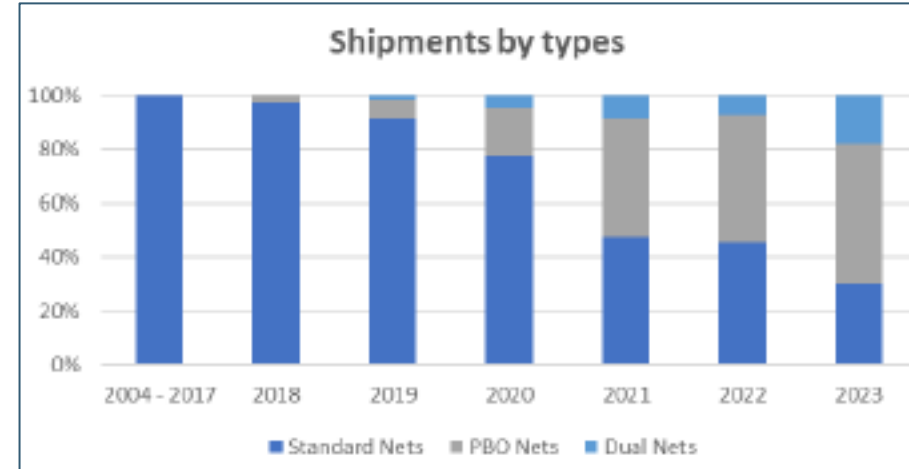
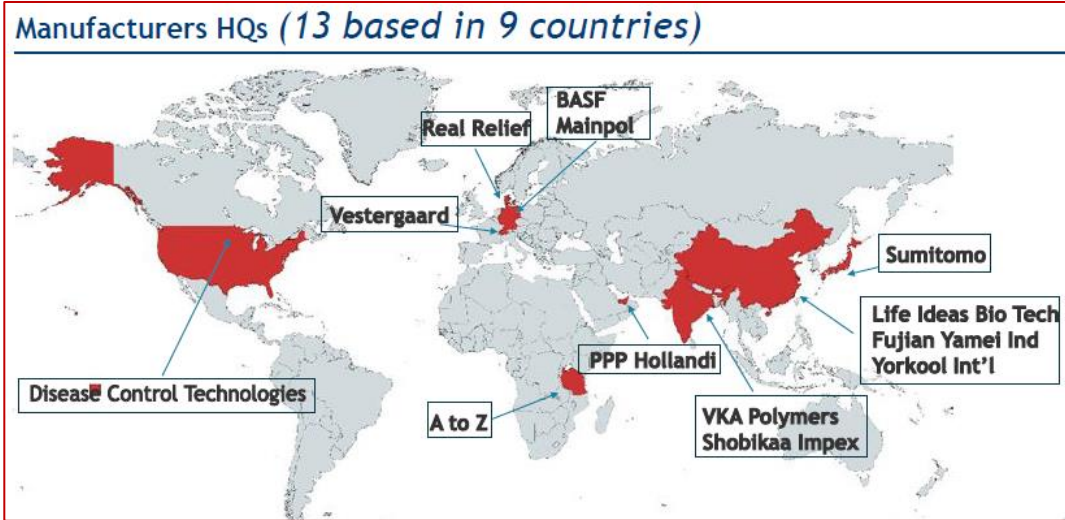
2024 AMP Partners Meeting in Numbers



Global scaleup of ITNs in the 2000s and applicable lessons for the current and future context

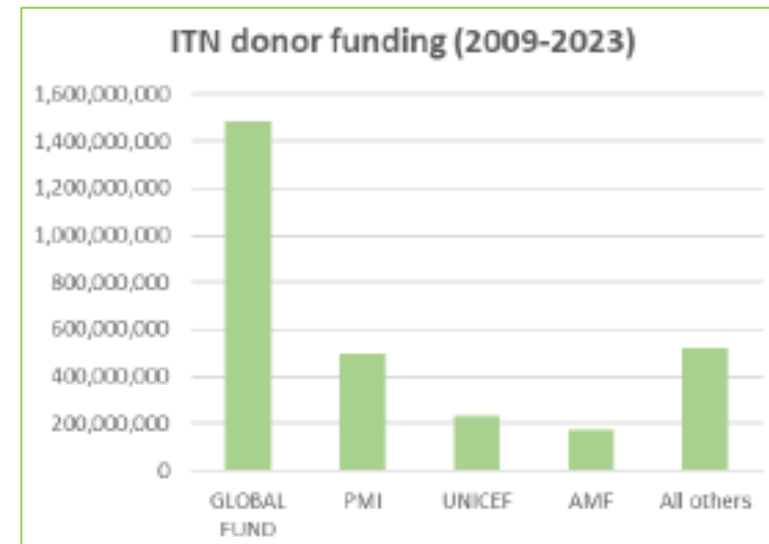


3 billion nets & 20 years of mass campaigns: Procurement trends and forecasting the next 5 years



It took us:

- 10 years to reach 1B
- 5 years to reach 2B
- 4 years to reach 3B

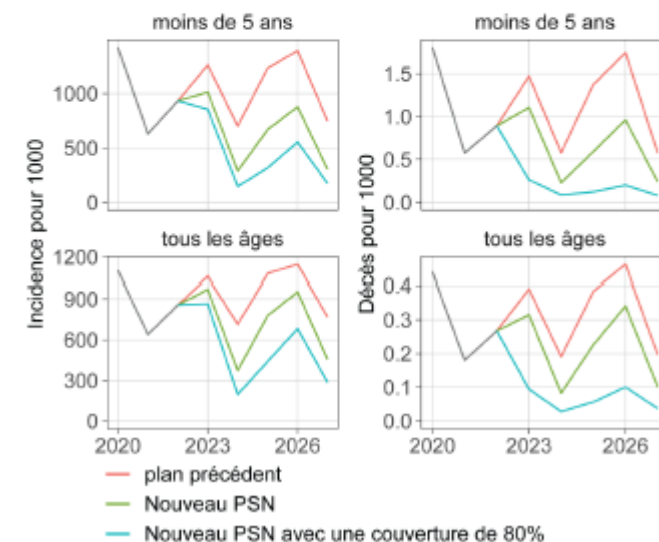
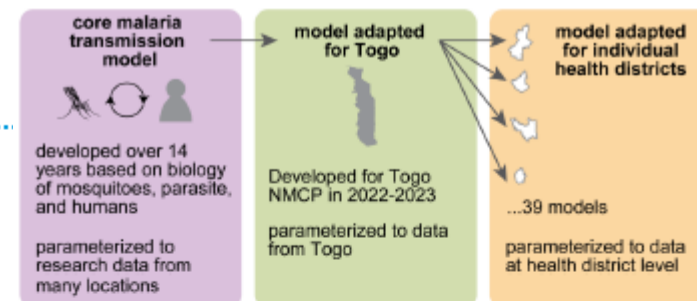


Subnational tailoring strategies – Overview from WHO

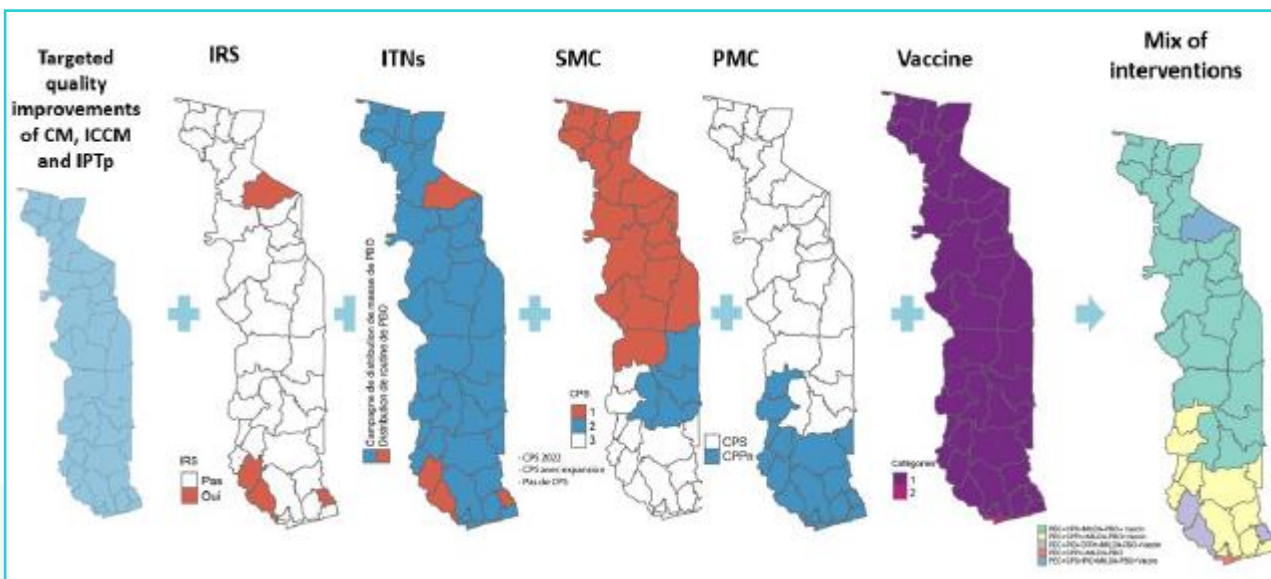


Impact projections

The impact of these scenarios is estimated using mathematical models. At this point further refinements may be made to the scenarios. A consensus based approached informed by the evidence is used to select the final mix of intervention and strategies.



Expanding the ownership and use of mosquito nets



Prioritization in the face of limited resources

Criteria for prioritization

01

Highest transmission areas

Relative to the transmission spectrum of the DRC, as the country has high transmission nearly everywhere.

02

Highly urbanized health zones

With ecologies less suitable for the vector population, improved infrastructure, SES, access to care, behavior unfavorable to enable effectiveness of vector control, etc.

03

Areas with substantial impact of previous campaigns

Where the scale back of ITN distributions could lead to much greater resurgences than in areas where receptivity is similar, but the impact is lower.

04

Currently low transmission but high receptivity

Determined by prevalence of infection before the scale-up of community-based interventions (2000)

05

Limited access to healthcare

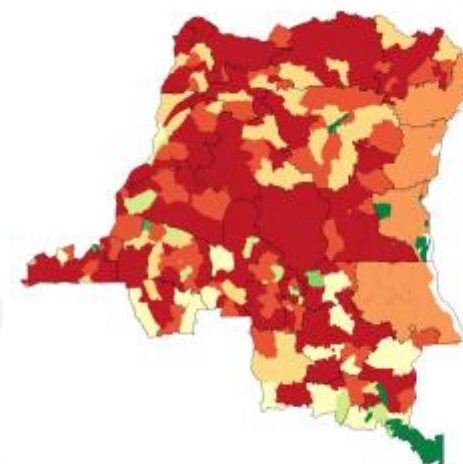
06

Presence of parasites resistant to ACTs

07

Presence of Internally displaced people

▶ Data on resistance to pyrethroids to determine the type of net needed in priority areas.
Access to and use of mosquito nets will not be used as areas with low access and use should not be penalized



Categories

- Priorité 1a
- Priorité 1b
- Priorité 2a
- Priorité 2b
- Priorité 2c
- Priorité 3a
- Priorité 3b
- Priorité 4
- Priorité 5

ITN deprioritization in urban areas - Kwara State

Differences in the context of malaria in urban vs rural areas

Disease distribution

Transmission is mostly focal in urban areas, concentrating in peri-urban and informal settlements while in rural areas, it is typically generalized

Infection source

Infections in urban areas are often linked to travel to and from rural areas with high transmission while most infections in rural areas are locally acquired

Housing types

Many housing types reduce indoor biting in urban areas, except in poor quality housing in low-income areas

Aquatic habitats

More diverse and related to human activity in urban areas while in rural areas they are often large and related to natural ecology

Implications for urban malaria

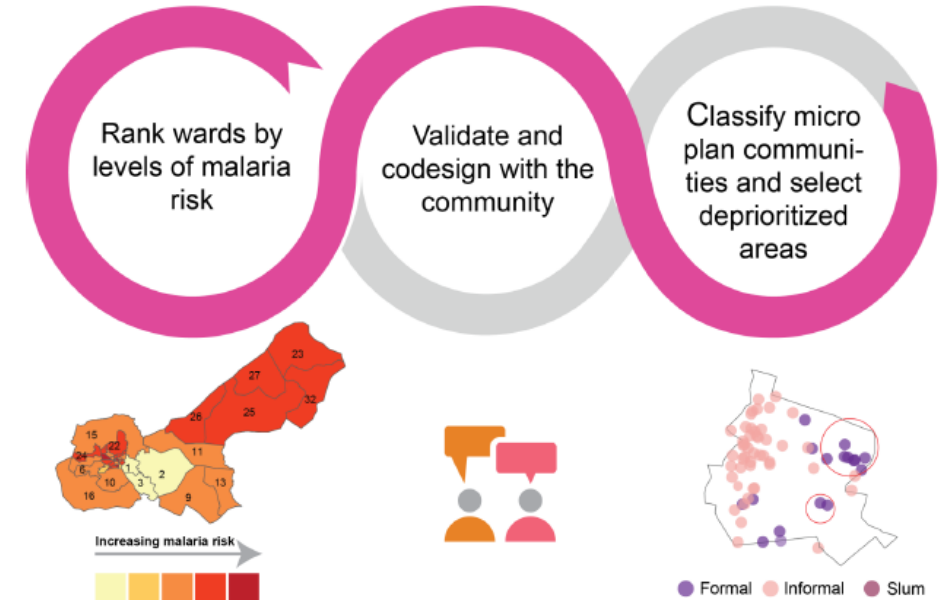
A more targeted approach to surveillance and intervention delivery is needed

Seasonality of travel may affect seasonality of infections

Bednets may have minimal impact in areas with high quality housing

Newer vectors such as *Anopheles Stephensi*, adapted to urban habitats may become predominant

Our process was as follows:



Key messages for deprioritized households

- Emphasize importance of IPTp and prompt treatment seeking for fever
- Net care messages
- Pregnant women and fully vaccinated children under age five still eligible to receive an ITN at their nearest health facility



Examples of house construction in deprioritized settlements

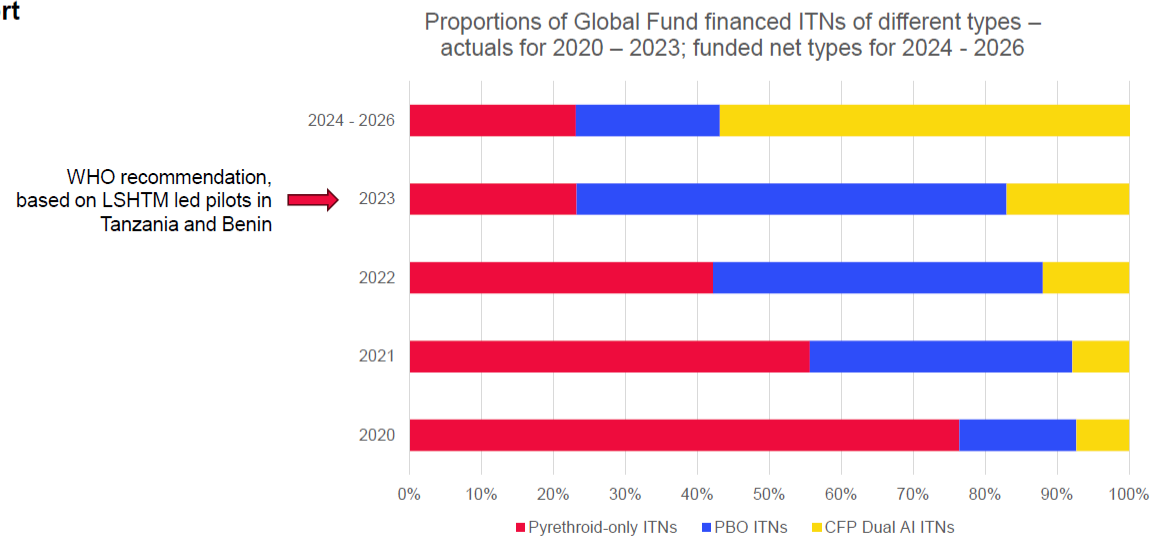
Global Fund Grant Cycle 7 lessons learned and efforts to ensure ITN optimization

Pricing - and a background of catalytic support – means the transition to more effective nets is accelerating despite funding challenges

8-years of catalytic support



THE GLOBAL FUND



Integrated ITN/SMC Campaign - Kwara State, Nigeria



- ❖ Improved coverage and wide acceptance for both interventions.
- ❖ Increased access to both ITNs and SPAQ in the communities.
- ❖ Synergy in the household - same personnel can register households, distribute ITNs and administer SPAQ to eligible children.
- ❖ Beneficiaries' acceptance of both interventions - eager to receive both ITNs and SPAQ to strengthen their protection against malaria.
- ❖ Efficiency - cost savings of over N83million (\$203,411).
- ❖ Integration does not significantly affect ITN distribution and redemption rates.

Transitioning to community-based distribution in high-burden districts – Example from Burundi

Main reasons for transitioning high burden districts from mass campaigns to continuous distribution (CD):

- Significant loss of ITNs, 2-3 years after campaign
- Increase in malaria incidence after 3-year period

Advantages:

- Technical & financial efficiencies:
 - CD-districts not coverage through mass campaigns, nor through IRS
- Maintains universal coverage
- Good acceptance by communities

Marcy: Consideration for adapted ITN operational strategies

Tailoring operational strategies: One size fits all is out

Hybrid and contextually-adapted approaches are needed to ensure that strategies and channels adopted are effective for reaching everyone we want to reach



Conflict affects access – adapted strategies are needed as these are the people we need to reach

- Overlap between humanitarian needs and conflicts with malaria disease burden
 - 44% (24) core GF portfolios are classified as COE and are home to 76% of malaria cases
 - Humanitarian crises in 37 malaria-endemic countries, with instability increasing, particularly in the high-burden Sahel
- Reaching last mile populations likely requires an adapted strategy from what is used for “easy access” populations



camp for internally displaced people in Somalia. Photo by: Faisal Abdi via Kalu Institute / CC BY-NC-ND



UNAMID/Hamid Abdulsalam

While we chip away at operational costs, we need to think about SBC (which is typically cut first)

- The process of determining exclusion and inclusion is not easy and results will be perceived differently by different stakeholders
 - Needs to be clearly and consistently explained in a language people understand at different levels
- Advocacy will be needed not only where nets are being distributed, but also where they aren't
 - High level leadership and engagement to support implementation of decisions on targeting and prioritization will be needed
- In areas where ITNs are distributed, we need to ensure they are used
- SBC has always been critical, but may be even more so now
 - Do we know what SBC/C is most effective? We seem to recycle both activities and messages → data?



Other key messages

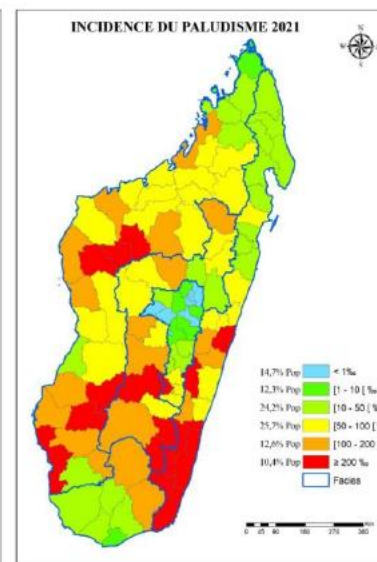
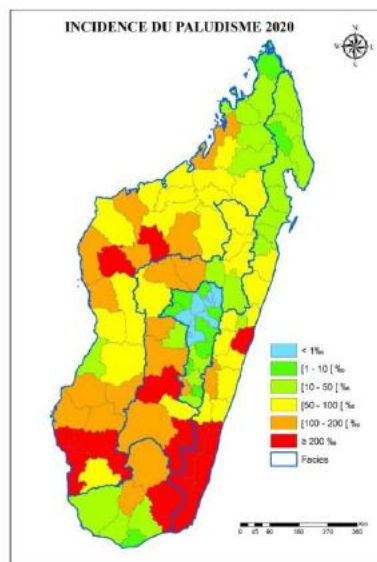
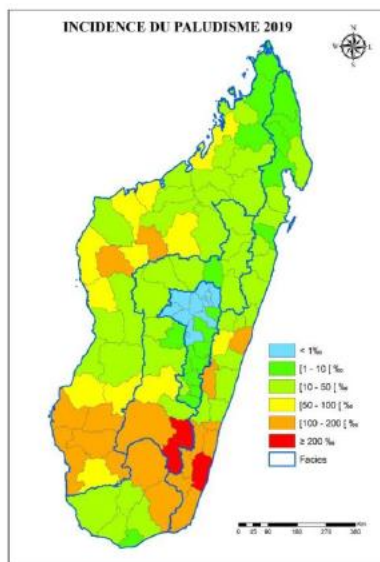
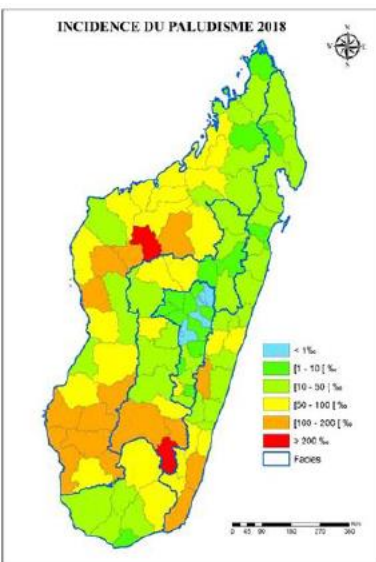
- Setting appropriate & context-specific parameters to reach the people we are prioritizing
- Consideration for fixed site vs door-to-door: Costs aren't equal across countries or contexts
- As we start to target interventions differently, personnel and commodity security need to be considered
- Need more focus on net care & repair to get the most mileage out of nets

Climate impacts & vector control with ITNs (Malawi, Madagascar, Pakistan)



Actions undertaken countries:

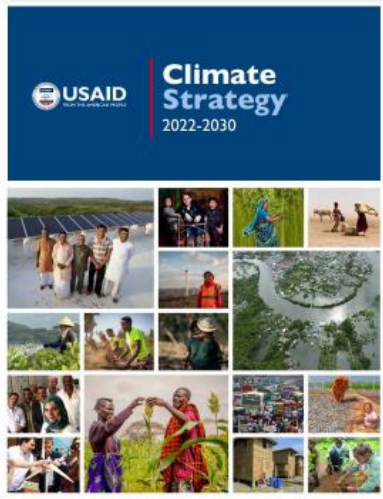
- Coordination between NMCP and Meteorological Ministry (Madagascar)
- Integrated messaging – malaria prevention with post-cyclone measures (Madagascar)
- Established the Department of Disaster Management Affairs under the Office of the President and Cabinet to respond to disasters (Malawi)
- Emergency distribution of ITNs
- Pre-positioning of ITNs
- Inserted climate change actions as a key component of their National Malaria Strategic Plans



USAID Climate Strategy

The USAID Climate Strategy intersects with sustainable manufacturing:

- Reducing greenhouse gas emissions
- Mitigating carbon emissions
- Promoting decarbonization & sustainable growth in manufacturing
- Fostering private sector engagement on sustainable supply chains
- Mobilizing finance to invest in the transition to a net-zero economy
- Increased adoption of Environmental, Social and Governance (ESG) standards



“Best Value Criteria” and Sustainable Manufacturing and Procurement

Environmental Sustainability Impacts:

- Reduced packaging material volume that still maintain adequate product protection → reduce manufacture material and energy inputs
- Increased packing efficiency → contribute to lower fuel consumption, reduced emissions and less pollution from logistics activities
- Innovations in packaging material → contribute towards improved waste management
- On-time-delivery performance → reduces in-country emissions and waste associated with extended storage requirements or rapid deployment of transport
- Robust QA practices → reduce production of defective or substandard ITNs, reducing resource consumption and waste generation

Global Fund Climate Strategy

- The Global Fund is committed to promoting low-carbon, climate-resilient health systems and addressing the impacts of climate change on the fight against HIV, TB and malaria.
- We support countries that are the most vulnerable to the impacts of climate change – 71% of our new investments (2023-2025) will go to the 50 most climate-vulnerable countries.
- Global Fund endorses the “Guiding Principles for Financing Climate & Health Solutions”
 - Accelerating transformative climate and health solutions to save and improve lives now and in the future;
 - Creating equitable, inclusive, accessible, and holistic approaches to climate and health financing and solutions;
 - Building the core policymaking and implementation capacities of countries, communities, and financing institutions to deliver climate and health solutions.

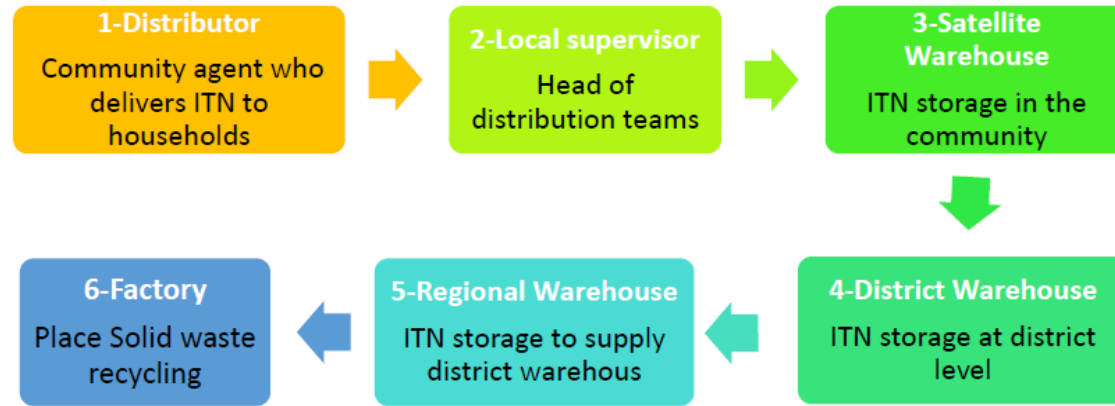
Recommendations: There are 3 near-term priorities, as well as additional opportunities in the long run for further carbon abatement

	Near-term priorities	Long-term (with high impact on carbon abatement)
Objective	Execute “Quick win” levers which have a positive impact on cost and carbon, while others improve planning processes and in-country delivery	Influence the reduction of carbon emissions further, including setting expectations with manufacturers, working with partners on waste management, and looking for innovation – which would incur additional costs if done in the near-term
Priorities	<ol style="list-style-type: none"> 1. Implement policies fully for sustainable ITN ordering including standardizing specifications choices (e.g., artwork) and making bulk packaging standard option where possible 2. Optimize ITN logistics from arrival at port from to 1st delivery including working with the WB and WTO to simplify customs and strengthening coordination for customs and early in-country logistics management with TA 3. Digitize (in-country) campaign end to end e.g., building on Red Rose platform in Nigeria, digital tracking tool being piloted with eGov (e.g., in Mozambique) 	<p>Improve EoL and waste management</p> <p>Advocate to manufacturers to improve emissions from energy use (e.g., joining CEBI consortium, including emissions as part of scoring for RPF¹⁾)</p> <p>Manufacture ITNs with blended recycled/ virgin plastic</p> <p>Adopt alternative low-carbon production routes (e.g., e-cracker, Bio-based feedstock, CCS) and packaging material</p> <p>Increase ITN durability and lifetime to reduce emissions as less ITNs needed over long term</p>

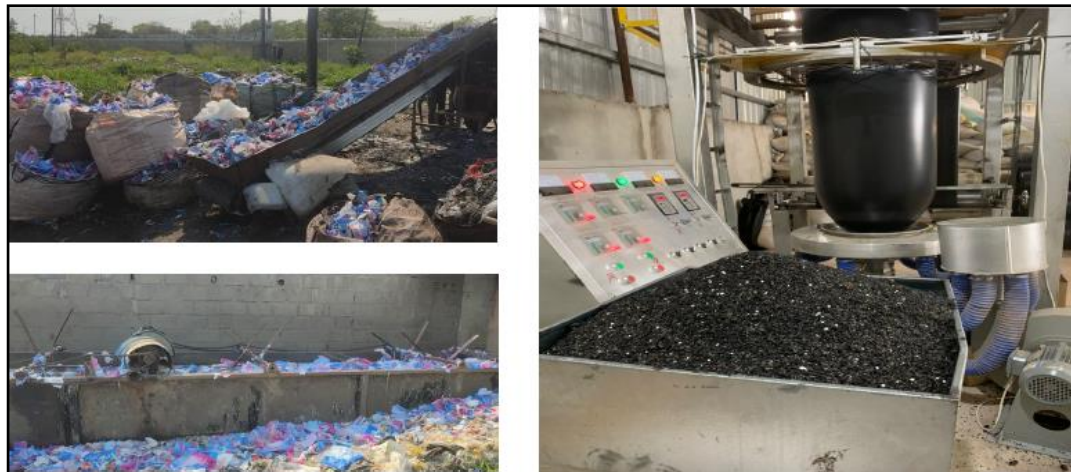
Solid waste management from ITN campaign - Mozambique



Solid waste collection flow



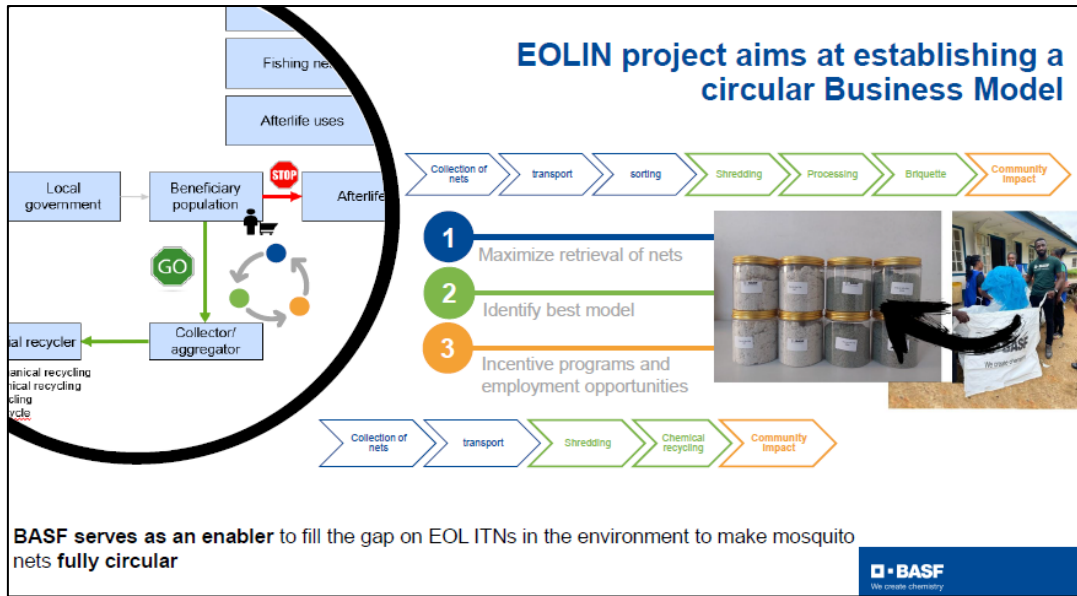
Armazém Regional de Namacurra



Final product of recycling

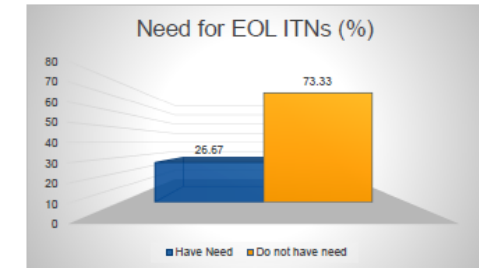


Developing an evidence-based approach to end-of-life nets in Nigeria: Project EOLIN - A public private partnership



Willingness to return EOL ITNs

- 73.33% have no further need for their EOL ITN(s)
- Suggesting a large volume of EOL ITNs will be discarded in the household environment
- 26.67% indicated they still had use for their EOL ITNs and will repurpose them
- 95.6% of respondents indicated they will be willing to give up their EOL ITNs (for proper management)



While the Rapid Assessments shows a willingness to return EOL ITNs, we believe large percentages can only be realized by strong SBC, coordination, and community engagement

Will you be willing to give up all the old nets in the household?	DUTSE n (%)	Hadeja n (%)	Kazaure n (%)	Total n (%)
Yes	29 (96.7)	28 (93.3)	29 (96.7)	86 (95.6)
No	1 (3.3)	2 (6.7)	1 (3.3)	4 (4.4)
Total	30 (100)	30 (100)	30 (100)	90 (100)



Preliminary findings from 2022 BASF Scoping Study

Study conducted in Cross River State at household level

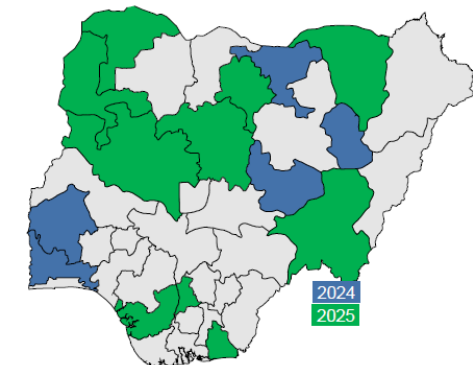
- ITNs are found in almost all households in sizable numbers
- The general perception among households is that end-of-life ITNs have no value and are not useful
- Lack of environmental awareness
- Likelihood to collect the nets and potential quantities
 - Based on the sampled LGAs surveyed, it would be possible to retrieve/collect EOL ITNs from 60% of household (about 6 in every 10 households). **At least 50% of the last campaign ITNs are available for retrieval.**
 - Potential operational and logistics challenges include:
 - access to households (hard to reach and geographic barriers)
 - funding for the collection
 - warehousing and transportation to the destination for incineration or recycling



Going to Scale: Potential EOLIN States

- Based on findings from the PoC in Cross Rivers, the pilot in Jigawa and one other state in 2024 (TBD), the EOLIN Protocol will be added (eventually) as an annex to the ITN implementation guideline
- Once enough successes have been demonstrated, EOLIN will become a standard within Nigeria.

Routine and Continuous will be integrated



ITNs life cycle needs to be better managed

It is estimated that EOL ITNs and packaging may account for up to ~1-5% of total plastic in Africa¹

AMP 2024 Awards

- South Sudan (Dr Puok & NMCP team) - Leadership award for 2023 campaigns
- Madagascar PNLN – Data for decision-making award
- Mali PNLN – Targeting ‘hard to reach’ populations despite security challenges





AMP 2024 Recognitions

- Ghana
- Zambia
- Togo

For their early efforts in implementing and generating data to support ITN scale-up, eventually leading to policy change

Resources

All [presentation and recordings](#) can be found on the AMP website

**Collecting images and videos of ITN
distribution campaigns !**





Thank you