

Unitaid's Vector
Control Portfolio:
an overview and
update





**Unitaid: Saving lives faster** 



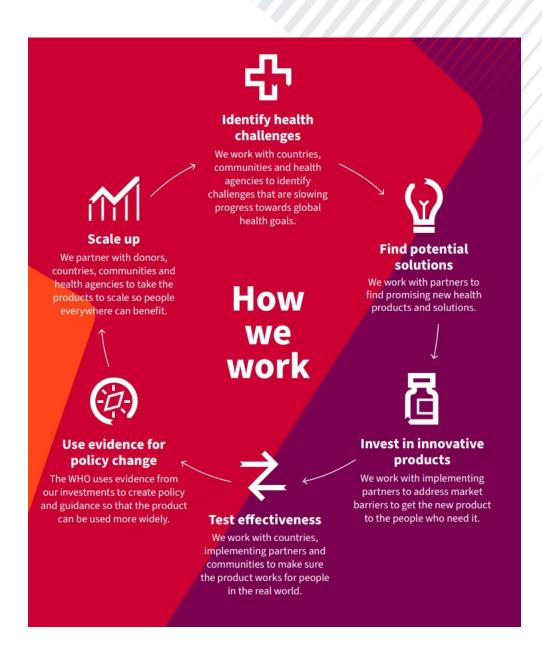


### Who we are

Unitaid saves lives by making new health products available and affordable for people in low- and middle-income countries. We identify innovative treatments, tests and tools, help tackle the market barriers that are holding them back and get them to the people who need them most – fast.

"Thanks to Unitaid, more people across Africa have access to the best HIV treatments at a fraction of the original price. Young children have been cured of tuberculosis with high-quality formulations that are easy to administer. Millions of young people are better protected against malaria through large-scale seasonal delivery of medicines, an approach that has dramatically reduced child mortality without raising costs." United Nations Secretary-General António Guterres







## **Groundbreaking solutions**

#### **Develop better products**

Child-friendly medicines, fixed-dose combinations

#### Simplify care

Self-testing & self-collection, better tolerated treatment

#### Reach those most at risk

Children in Sahel have access to effective malaria prevention tools

#### Advance women's health

Effective test and treat solution for cervical cancer

## Bring products faster and make them affordable

Dolutegravir, rifapentine, bedaquiline etc.



170 million people use Unitaid-supported health products every year



100+ groundbreaking products introduced since 2006



Our approach helps reach global health targets three years faster



US\$8 billion in savings by 2030



## **Strategic Objectives**

**Products, Access and People** 

1

Accelerate the introduction and adoption of key health **products** 

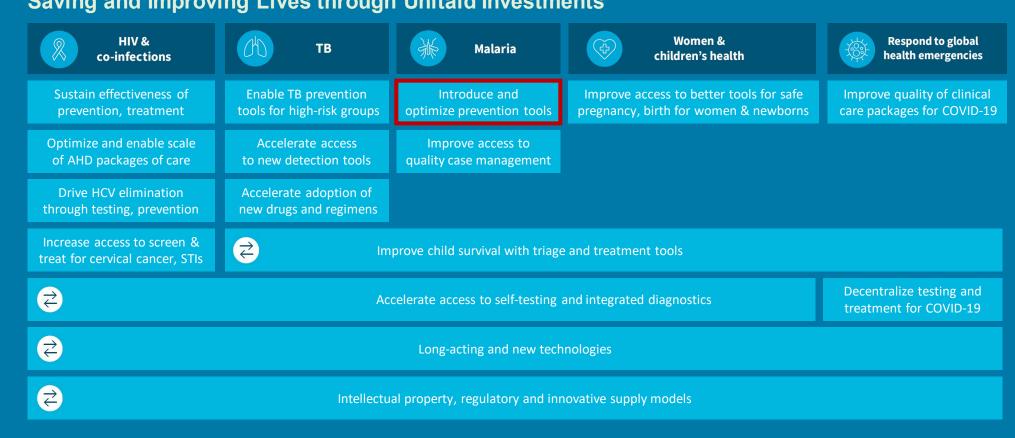
Create systematic conditions for sustainable, equitable access

Foster inclusive and demand-driven partnerships for innovation





## Unitaid's Programmatic Priorities New Strategy 2023-2027 Saving and Improving Lives through Unitaid Investments





## **Yunitaid** Current malaria portfolio

	Grant (Consortium lead)	Amount (Timeline)	Countries	Focus
	The Plus Project (PSI)	<b>\$35m</b> (2021-2025)	Benin, Cameroon, Cote d'Ivoire, Mozambique	Large-scale pilot delivery of co-designed PMC strategies
c	MVIP (WHO)*	<b>\$13m</b> (2017-2023)	Ghana, Malawi, Kenya	Impact, feasibility, cost-effectiveness of RTS,S malaria vaccine
Prevention	New Nets Project (IVCC)*	<b>\$66m</b> (2018-2022)	14 countries in SSA	Large-scale introduction of dual AI ITNs, incl. evidence on efficacy, effectiveness, and cost
P. g	AEGIS (UND)	<b>\$34m</b> (2019-2025)	Kenya, Mali, Sri Lanka, Uganda	Evaluate spatial repellents as a new vector control product class
	BOHEMIA (IS Global)	<b>\$25m</b> (2019-2024)	Kenya, Mozambique	Evaluate ivermectin mass administration as a vector control product class
nent	PAVE (MMV)	<b>\$25m</b> (2021-2025)	Ethiopia, Indonesia, PNG, Peru, Vietnam	Introduce new screening and treatment tools to support the elimination p. vivax malaria
Case nagement	TIMCI (PATH)	<b>\$28m</b> (2019-2024)	India, Kenya, Myanmar, Senegal, Tanzania	Integrated and appropriate fever
man	AIRE (ALIMA)*	<b>\$15m</b> (2019-2023)	Burkina Faso, Guinea, Mali, Niger	management of sick children
Cross- cut	Supply Side Grant (MMV)*	<b>\$5m</b> (2017-2023)	Global	Overcome severe malaria and prevention supply barriers



## New Nets Project – partnership with The Global Fund





Lead Grantee

Innovative Vector Control Consortium (IVCC)



**Grant Period** 

2018-2022



**Grant Value** 

US\$66M



Project countries

Benin, Burkina Faso, Rwanda, Mali, Mozambique, Nigeria, Cote d'Ivoire, Liberia, Ghana, DRC, Malawi, Niger, Cameroon, and Burundi





Introduce new long-lasting insecticide-treated nets (LLINs) in areas of insecticide resistance



# Broad One Health Endectocide-based Malaria Intervention in Africa (BOHEMIA)







Develop a complementary new-class vector control tool, ivermectin (endectocides)



# Advancing Evidence for the Global Implementation of Spatial Repellents (AEGIS)





Lead Grantee

University of Notre Dame



**Grant Period** 

2019 - 2025



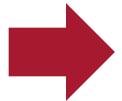
Grant Value

US\$ 34.7M



Project countries

Kenya, Mali, Sri Lanka, Uganda





Evaluate spatial repellents as a new vector control product class



### Unitaid's Model

# **Disease/ Thematic**narrative

- Landscape of the disease, the global response, and challenges
  - Identify potential opportunities

## Area for intervention

- Business
   case to
   support areas
   in which we
   plan to invest
- Vehicle to issue calls for proposals

## Call for Proposals and review

 Proposal review by Unitaid Secretariat and external review committee

# Grant Agreement Development

 Collaborative process with Unitaid
 Secretariat to design appropriate grant

#### **Implementation**

 Delivery of Unitaid-funded project to catalyze scaleup of effective tools

Area for Intervention endorsement

EB

Proposal 'go-ahead' approval

EB

Grant signing and disbursement approval

EB



# Call for proposals: Catalyzing adoption of an expanded vector control toolbox to fight malaria

Multi-country implementation work to accelerate demand and adoption of new vector control tools and effective deployment strategies, and establish healthy market conditions Objectives Generate evidence to inform Establish healthy market conditions, including supply **deployment** and integration of tools within the wider toolbox security and sustainable pricing

Closed: 25 August 2023



# **Community and Civil Society Engagement (CCSE)**





### Unitaid's vision and mission

**Our vision**: Equitable access to health innovations to ensure healthy lives and promote well-being for all.

**Our mission**: We expand the reach of the best health products for those who need them most.

#### We can deliver on this vision and our mission:

- By designing and investing in innovative approaches to make quality health products available and affordable in LMICs
- By inspiring and promoting collective efforts with partners, countries and communities, unlocking access to the tools, services and care that can deliver the best results, improve health and address global health priorities

#### STRATEGIC OBJECTIVES

1

#### Accelerate the introduction and adoption of key health products

- · Boost the development of fit-for-purpose health products
- Use market shaping approaches to enable suitable, affordable, quality supply
- Support **product adoption and scale up** in countries as part of simple, effective and evidence-based models of care

2

## Create systemic conditions for sustainable, equitable access

- Establish an **enabling environment** for access, including IP and regulation
- Support innovative supply models
   & approaches, including local
   manufacturing and technology transfer
- Disseminate knowledge and evidence on access

3

#### Foster inclusive and demand-driven partnerships for innovation

- Maximise the engagement of affected communities and responsiveness to their needs
- Maximise alignment and synergies with governments, in-country stakeholders, affected communities and civil society organizations
- Further develop global alliances for product scaleup

The engagement of communities and civil society across our work is essential



## Benefits and successes of engaging communities



Increased awareness, demand and information dissemination

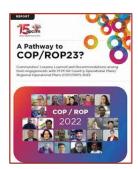
Ensures communities are informed and ready to ask for the best health innovation



Communique of the Kigali Community Meeting on Dolutegravir and Weight
Gain Co-hosted by AfroCAB and CHAI with funding from Unitaid and the Bill
and Mellinda Gates Foundation

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More ambitious commitments in scale up partner funding proposals



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Stronger
translation of
scientific and
normative results
into treatment or
health literacy

Community voices in committees, conferences and technical meeting





# Regional Manufacturing for Equitable Access (RMEA)





## Regional Manufacturing in Africa and Latin America & Caribbean

**Africa** suffers more than its fair share of communicable and non-communicable diseases, while having the lowest production capacity for health products in the world.

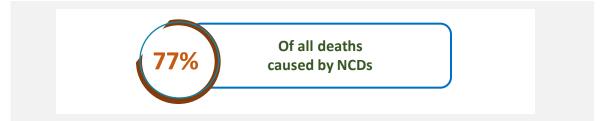


African countries currently **import more than 79%**(3) of their pharmaceutical supply from **outside the continent.** 



This dependency is unsustainable - particularly in the face of the expected population growth. Roughly half of its 1.1 billion people lack regular access to even the most essential medicines, according to the WHO

Latin America's access to essential medicines and health technologies is a complex endeavor, necessitating considerations for safety, quality, affordability, and timely availability



LATAM countries currently **import about 50%** of their pharmaceutical supply from **outside the continent**.

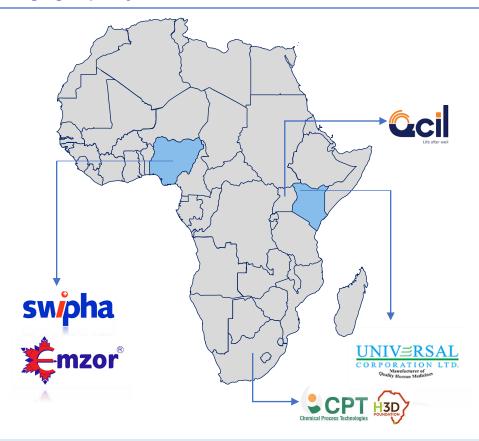


While the continent has relatively more manufacturing, there are many inequalities. LATAM experiences higher instances of IP and affordability barriers affecting a significant proportion of its 700 million population's access to essential medicines.



### Malaria | Africa manufacturing value chain already being nurtured

#### **Emerging Capacity in Africa**





for product development and support with dossiers for WHO PQ

**Product Development** 

**Regulatory Review** 

**WHO PQ** 

**Sulfadoxine – pyrimethamine Emzor Pharmaceuticals** 

**Sulfadoxine – pyrimethamine SWIPHA** 

Sulfadoxine – pyrimethamine **Universal Corporation (UCL)** 

#### New API Manufacturing capacities emerging on-continent

- In technical collaboration with Mangalam, Emzor is developing the first API manufacturing facility in West Africa for production of 5 anti-malarials - Artemether (A), Dihydroartemisinin (DHA), Lumefantrine (L), Sulfadoxine (S) and Pyrimethamine (P).
- Advanced laboratory-scale synthesis of multiple APIs, including Amodiaguine by CPT in South Africa
- H3D and CPT partnership to pilot promising products and new synthesis pathways.
- Swipha and Emzor with support from MMV and Unitaid are developing a quality-assured child-friendly, dispersible formulation of SP to protect women, children and infants from malaria. Swipha is expected to receive WHO pre-qualification for this product soon.
- UCL is the first African manufacturer to gain WHO prequalification for SP to prevent malaria in pregnant women with support from MMV and Unitaid. In October 2023, UCL received prequalification from WHO for SPAQ.
- QCIL Uganda is listed as a manufacturing site for Cipla's WHO prequalified Artemether/Lumefantrine 20/120mg finished pharmaceutical product.



## **Climate and Health**





## Climate related challenges

- Climate variability (changes in temperature and rainfall), can impact the **behaviour and survival** of the malaria-carrying *Anopheles* mosquito.
  - Vector adaptability> geographical spread to new environment, resistance
  - Spread of vector due to climate changes over time could put 700 million more people at risk by 2050.
  - Increased flooding > more breeding sites
  - Outdoor living > exposure to insect biting and transmission
  - Seasonality and variation impact programme designs, modelling difficulty and disrupt effectiveness
    of scheduled prevention (e.g. IRS, extreme heat >sleeping outside nets)
- Extreme weather events such as heatwaves and flooding may lead to increases in the transmission and burden of the disease.
  - Population displacement and migration> exposure in endemic areas
  - Malnutrition > risk factor for severe malaria, anaemia
  - Conflict and humanitarian crises
  - Floods could limit access to nets due to damage, loss or destroyed road network
- Drug and insecticide resistance
  - Heat stability of treatment/diagnostic products >potential impact on product expiry and labelling
  - Efficacy of vector control tools
  - Supply chains disruptions to reach most remote/climate-affected areas



# From milligrams to megatons:

A climate and nature assessment of ten key health products

Figure 1. 10 priority health products have been selected based on relevance for & representativeness of the Unitaid portfolio and disease space

Archetypes	Typical products	Focus products
Small molecule	Oral medications Injectable medicines	Heat stable Carbetocin
medicines		Long-acting injectable Cabotegravir
		Dolutegravir-based first line regimen
		Bedaquiline, Pretomanid, and Linezolid (BPaL)
		Artemisinin-based combination therapy
Rapid diagnostics	Lateral Flow Assay products (Rapid tests)	A HIV Self-Testing
Point-of-Care diagnostics	Point-of-Care PCR testing platforms	Point-of-Care PCR platform for MTB test
Integrated diagnostic platform	Lab-based PCR testing platform	Righ-throughput PCR platform
Vector control products	Insecticide- based vector control products	Long Lasting Insecticide- treated Net (dual active ingredient nets)
Others	Production of medical oxygen	Pressure swing adsorption oxygen generating plant (PSA O <sub>2</sub> plant)



Women & Children's health





Tuberculosis



Respond to Global Health Emergencies



Malaria

November 2023 unitaid.org

## **Unitaid response**

- Board-approved Climate and Health Strategy
  - New aspiration for health products climate smart health products (with 4 dimensions)
  - o Climate concept mainstreamed into all our investments
- Unitaid response (evolving):
  - Decarbonization efforts across our Secretariat and Portfolio: climate commitments made (-50% by 2030 on portfolio and Secretariat, Board-facing KPI on Secretariat CO2 emission reduction)
  - Value-chain decarbonization focused on specific products
  - O Carbon action included in our proposal and procurement forms, selection criteria but also budget to support implementers;
  - o "doing our part" supported by the Climate Action Accelerator partnership
- Adaptation response
  - Deploying bed nets based on climate-informed data/programming
  - O Suitability to different settings e.g., for displaced populations/migrants, spatial repellents (SRs), attractive targeted sugar baits (ATSBs)
  - o Co-benefits protection across various vector borne diseases- Dengue, Zika
- Collaborative action of partners and stakeholders

## How Unitaid defines climate-smart health products



#### Not harmful

Products that are not harmful to climate and nature, globally and locally, all along their life cycle – from minimized greenhouse gas emissions during manufacturing to responsible recycling.



#### Resilient

Products that can be manufactured, delivered, stored and used in a way that is resilient to climate and nature risks.



#### Responsive

Products that address the evolving needs of communities in low- and middle-income countries that are impacted by climate change, including health risks exacerbated by climate change and increases in infectious diseases.



#### Locally adapted

Products that are delivered as part of locally adapted interventions, based on local context and knowledge, delivered through community-led models, and produced regionally.

## Industry/ partners' response

Resilience / climate risks on supply chains:

"Milligrams to megatons" report has surfaced issues in terms of resilience:

- Plant-source for Artemisinin
- o heat stability (ACTs) and other products
- o manufacturing concentration, risk to in-country supply chains, extreme events
- Industry collaboration mitigation response:
  - High CO2 emission (plastics mostly)
  - O Downstream plastic pollution- recycling and reuse as input, greening the input, explore alternatives
  - o Solutions and levers- 10 technical solutions, 40% without increasing COGs
- Partnership: criticality of partnerships; WHO ATACH as a strong platform

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# Thank you