# Update on recent, ongoing and future GMP work on malaria entomology and vector control



#### Dr Jan Kolaczinski

Head, Vector Control & Insecticide Resistance Unit

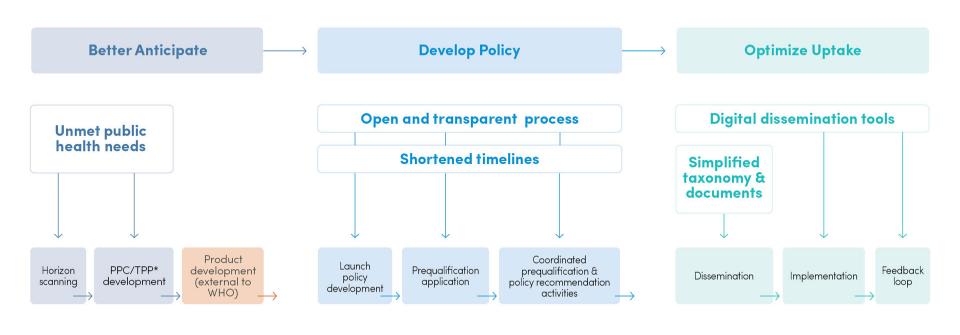
15<sup>th</sup> Annual Meeting of the RBM Vector Control Working Group 5 February 2020



# **GMP Policy Making**



## High-level diagram of the Global Malaria Programme's policy pathway for new products



<sup>\*</sup> PPC: Preferred product characteristic TPP: Target product profile





# **High Burden to High Impact Initiative**



Ten countries in sub-Saharan Africa – Burkina Faso, Cameroon, Democratic Republic of the Congo, Ghana, Mali, Mozambique, Niger, Nigeria, Uganda and United Republic of Tanzania – and India

## **4 KEY ELEMENTS**

There is no standing still with malaria. Continuing with the status quo will take us further off track in the fight against this deadly disease. Key elements of the new "High burden to high impact" response include:



#### Political will to reduce malaria deaths

The approach calls on high burden countries and global partners to translate their stated political commitment into resources and tangible actions that will save more lives. Ownership of the challenge lies in the hands of governments most affected by malaria. Grassroots initiatives that empower people to protect themselves from malaria, like the Zero Malaria Starts with Me campaign, can help foster an environment of accountability and action.

#### Strategic information to drive impact

We are moving away from a 'one-size-fits-all' approach to malaria. Through the more strategic use of data, countries can pinpoint where to deploy the most effective malaria control tools for maximum impact. They can also use data to optimize the way tools are delivered to those in need through, for example, improved primary health care, by community health workers and other conduits of delivery.

#### Better guidance, policies and strategies

WHO will draw on the best evidence to establish global guidance that can be adapted by high burden countries for a range of local settings. This guidance will be continually updated and refined based on country experience and the development of new tools.

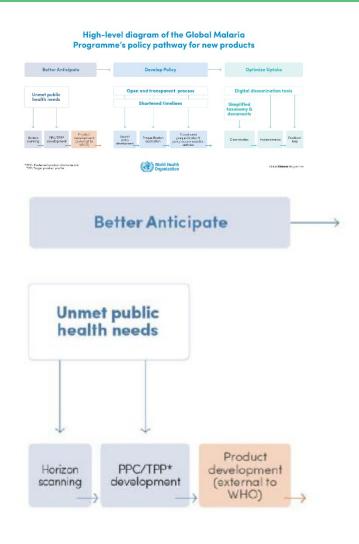
#### A coordinated national malaria response

Key to success is a more coordinated health sector response complemented by other sectors, such as environment, education and agriculture. Aligning partners be hind this country-led approach will ensure that scarce resources are used as efficiently as possible.



# **Better Anticipate – 2019**





#### \* PPC: Preferred product characteristic TPP: Target product profile

## **Horizon scanning**

https://www.who.int/research-observatory/monitoring/en/

## **Preferred Product Development (PPC)**

The WHO PPC should inform product developers, regulatory agencies, procurement agencies and funders on R&D and public health priorities. It is intended to facilitate the most expeditious development of products addressing the greatest and most urgent public health need.

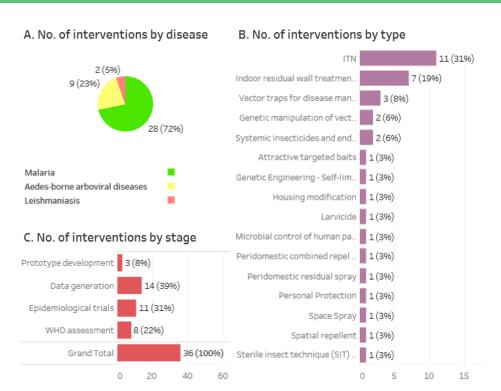
## Two PPCs under development:

- ITNs designed to provide improved performance against pyrethroid-resistant mosquitoes
- Vector control tools for complex emergencies

Please provide inputs into current draft PPCs to Jane Bonds: jasbonds@gmail.com

# **Better Anticipate - Horizon Scanning - 2019**





#### D. List of interventions

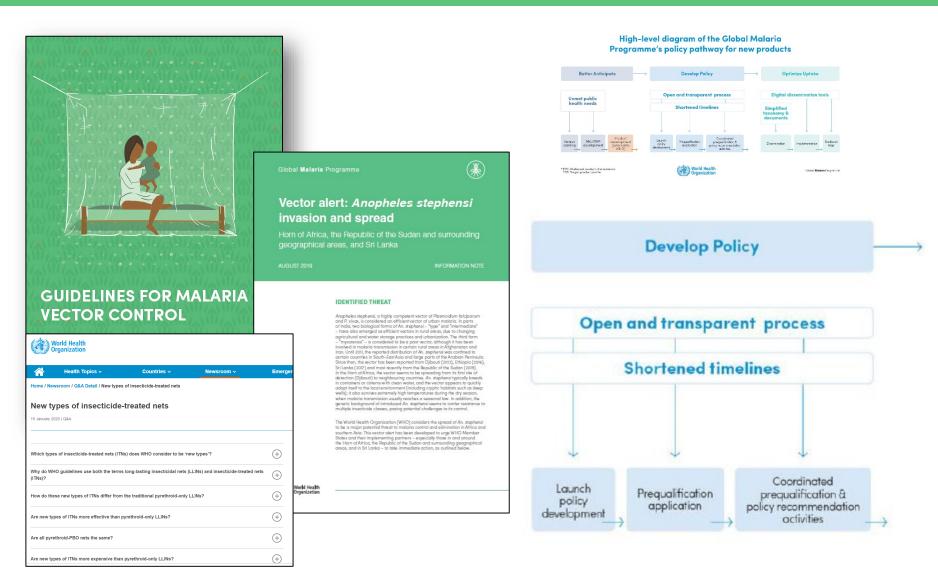
Intervention name	Disease		
ALO larvicidal trap	Aedes-borne arboviral di.	Vector traps for disease management	
Aquastrike	Aedes-borne arboviral di	Larvicide	^
	Malaria	Larvicide	
ATSB®, mosquitoes'	Malaria	Attractive targeted baits	
Axient 440EW	Aedes-borne arboviral di.	Space Spray	
DuraNet Plus	Malaria	ITN	
Fipronil bolus	Leishmaniasis	Systemic insecticides and endectocides	
Friendly Mosquitoes	Aedes-borne arboviral di.	Genetic Engineering - Self-limiting male mosquitoes	U
	Malaria	Genetic Engineering - Self-limiting male mosquitoes	•

https://www.who.int/research-observatory/monitoring/processes/health\_interventions/en/



# Develop Policy (& Guidance) - 2019





https://www.who.int/news-room/q-a-detail/new-types-of-insecticide-treated-nets



# **Develop Policy (& Guidance) - 2019**

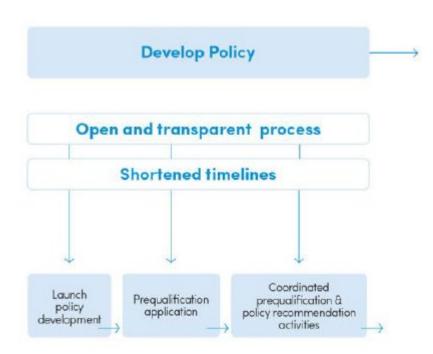




#### **Vector Control Advisory Group**

- VCAG: clarified roles and responsibilities within WHO, off-cycle reviews, updated VCAG ToRs, diversified membership, improved communications & feedback loops
- Currently 16 intervention classes under VCAG review. Epi trials are planned or are under way for 12 out of 16 intervention classes.
- Updating and harmonizing documents on the norms, standards and processes underpinning WHO vector control policy recommendations. Planned publication Q1 2020.
- Next VCAG meeting: 8-10 June 2020.

https://www.who.int/vector-control/vcag/en/

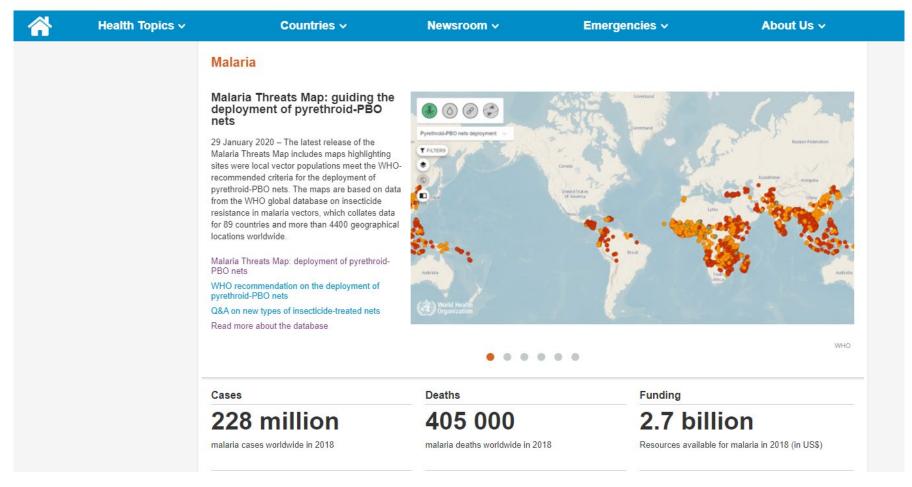




# Develop Policy (& Guidance) - 2019







https://www.who.int/malaria/en/



# **Optimize Uptake - 2019**



### Dissemination

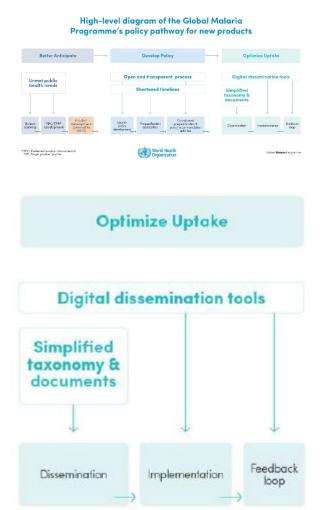
- Webinars
- GMP & GVCR website and newsletters
- World Malaria Report
- Updated websites incl. Malaria Threats Map

## **Implementation & Support**

- Malaria Program Reviews
- DHIS 2. See next slide

## Feedback loops

- vcguidelines@who.int
- vcag@who.int
- vectorsurveillance@who





# Optimize Uptake – 2019 (continued)





WHO - Standard modules for entomology and vector control

This is a demo of the WHO DHIS2 standard modules for entomology and vector control

#### Data collection forms indicators and dashboards for:

- Insecticide resistance monitoring
- IRS campaign results
- IRS residual efficacy
- LLIN campaign results
- LLIN bio efficacy
- Breeding sites mapping
- Adult surveillance

Countries supported for national Implementation

- Mozambique, Madagascar, The Gambia Integration in national repositories
- Ghana and Uganda

More information in the New Tools New Challenges workstream session

#### dhis2

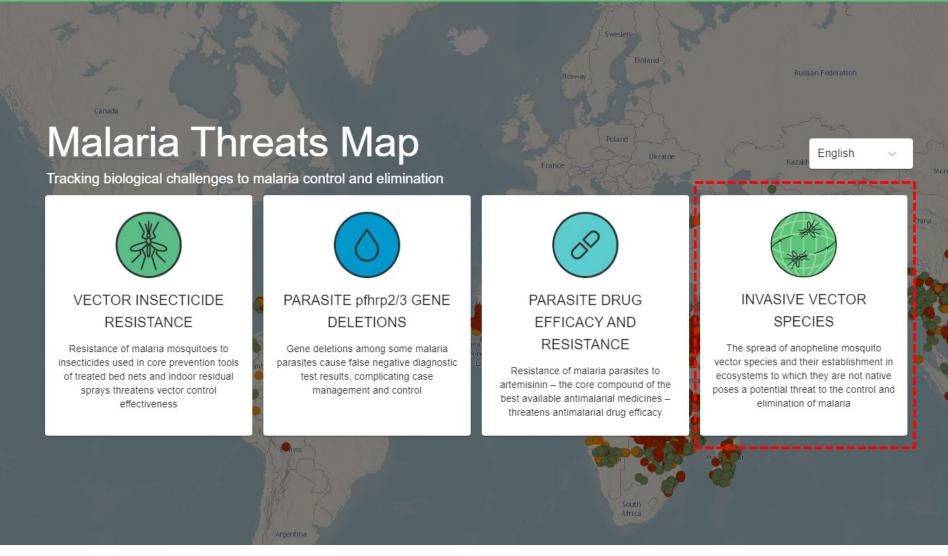


#### **Global databases:**

- Insecticide resistance on malaria vectors: established in 2014 Contains data for 89 countries from 1955 to 2019 (More info: <a href="https://www.who.int/malaria/areas/vector\_control/insecticide\_resistance\_database/en/">https://www.who.int/malaria/areas/vector\_control/insecticide\_resistance\_database/en/</a>)
- **Invasive vector species:** established in 2019- for now contains distribution of *An. stephensi*: detections in Somalia, Ethiopia, Djibouti and Sri Lanka.

# **Optimize Uptake - 2019 (continued)**





https://www.who.int/malaria/maps/threats-about/en/

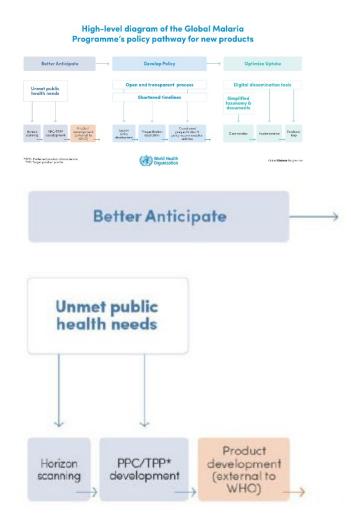




# What's next?

# **Better Anticipate – Planned for 2020**





## **Horizon scanning**

Ongoing

## **Preferred Product Development (PPC)**

#### Public consultation on:

- ITNs designed to provide improved performance against pyrethroid-resistant mosquitoes
- Vector control tools for complex emergencies

#### New PPCs for 2020:

- Indoor residual spraying / Indoor wall treatments
- Interventions to control outdoor biting



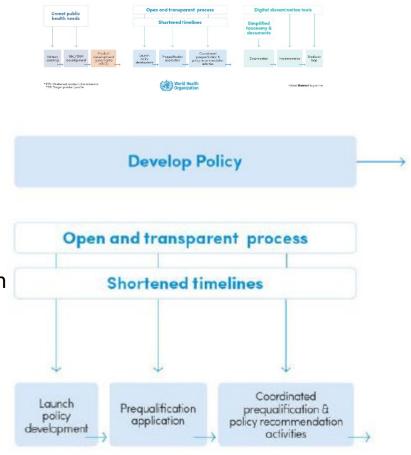
<sup>\*</sup> PPC: Preferred product characteristic TPP: Target product profile

# **Develop Policy (& Guidance) – Planned for 2020**



## **Policy**

- Guidelines for malaria vector control, V2 / Consolidated Malaria Guidelines
- Review and revise WHO Position Statement on DDT
- Develop and publish WHO Position Statement on Gene Drive
- Review and modify ITN classification and associated evaluation requirements
- Update 2017 Information Note on Evaluation Process for Vector Control Interventions & evolve into Norm and Standards Document for Vector Control Policy Making



High-level diagram of the Global Malaria Programme's policy pathway for new products

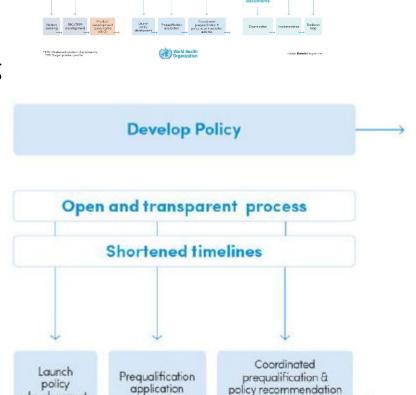


# **Develop Policy (& Guidance) – Planned for 2020**



## How-to guidance

- Full update of Handbook on Practical Entomology in Malaria
- Evolve insecticide-resistance monitoring and management guidance
- Full revision of IRS Manual
- Vector control prioritization using a Socio-Technical Allocation of Resources (STAR) approach (Draft to be developed and piloted)



High-level diagram of the Global Malaria
Programme's policy pathway for new products

Unmet public health needs

development



activities

# **Optimize Uptake – Planned for 2020**



#### Dissemination

- Webinars
- World Malaria Report
- GMP & GVCR website and newsletters
- Evolve Malaria Threats Map into decisionsupport tool (See next slide)

## **Implementation & Support**

- DHIS 2 roll out and support further expanded
- GVCR case-studies
- In-country prioritization exercises

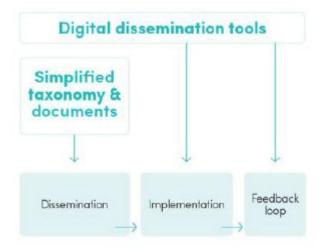
## Feedback loops

- Notice of intent (on ITN evaluation)
- Public posting of PPCs
- vcguidelines@who.int
- vcag@who.int
- vectorsurveillance@who

#### High-level diagram of the Global Malaria Programme's policy pathway for new products



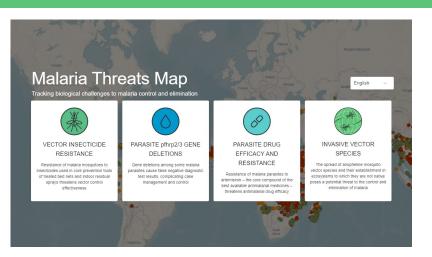
## Optimize Uptake





# Optimize Uptake – Planned for 2020 (continued)





https://www.who.int/malaria/maps/threats-about/en/

#### Data download feature

To allow download of Drug Efficacy, Insecticide Resistance and Invasive species data and to track the use of it. Data collection associated with download requests will generate better insights on how MTM is being used worldwide, its value for data sharing and to inform decision-making and guiding further development phases.

#### Maps export feature

- Export feature to allow for easy use of maps in reports and presentations
- Evolve deployment guidance maps for vector control tools

#### Time slider

to show temporal trends in threat evolution.

Insecticide Resistance and Drug Efficacy status updates generated automatically as new data comes in and corresponding to / informing Global Reports.

#### User subscription to threat alerts

to send alert messages to subscribers when a threat expands geographically or a new threat emerges.

#### Improved collection of user feedback

to help better understand user needs and inform next phases of development.





To receive regular updates on WHO's vector control work:
WHO Vector Control Updates: www.who.int/vector-control
GMP Newsletter: http://www.who.int/malaria/news/sign\_up\_form/en/

