



IVCC Strategy Update

RBM Vector Control Working Group - Kigali

Presentation by: Justin McBeath

Date: 17th April 2024





OUR VALUES

PARTNERSHIP

We believe in the power of partnership, collaboration and teamwork.

INNOVATION

We embrace ideas that drive vector control innovation, deliver impact and save lives.

RESPECT

We value diversity and treat each other with respect.



Funding Partners

BILL & MELINDA
GATES *foundation*



IVCC Product Development Partnership - Vision and Mission



Vision

To improve and *save lives* of vulnerable populations impacted by **mosquito-borne diseases**, through the delivery of a **sustainable tool-box** of vector control solutions.



Mission

By *building partnerships*, we enable the *creation of innovative solutions* to address evolving challenges in vector control across disease-affected countries.



Elements of change - evolution in the Vector Control environment

What have been some of the specific elements of change relevant to Vector Control Landscape between former strategy and today?

Elements of change

Vector Control Toolbox

- IRS market evolution
- ITN WHO GMP Policy in place Dual AI nets
- Spatial Emanator product class evolution (length of activity and progress through VCAG trials, potential relevance outdoors).
- ATSB in development stage

Country Focus

- Greater emphasis on country ownership and leadership in deployment optimisation
- Increased participation of private sector to public health

IVCC

- Full integration of ED&I into strategy
- Emphasis on safeguarding

Industry

- Further changes in industry (e.g. Bayer > Envu)
- Reduction in investment from major Ag Chems in new AI development for Vector Control (Bayer, Sumitomo, Syngenta)
- Entry of other innovators

Other

- Cost increase in commodities and operations
- Further pressure on funding / addition of private sector interest in countries
- Increased demand from funders on reporting and compliance
- Climate change and environmental impact

- Strengthening of integration of Market Access and Technical Development within the Product Development Process
- IPI integration into strategy
- (& new CEO)

Definition of scope of technology priorities for IVCC

IVCC LT team analysed 20+ technologies against the following 6 criteria:

1. Would it address a current unmet need?
2. Does it address an unmet need beyond 5-10 years?
3. Potential relevant/impact on malaria?
4. Potential impact on other VBD as well?
5. Matches IVCC internal expertise
6. Ease in identifying suitable partners



From this assessment, it was determined **if the technologies were within IVCC's scope.**

Those **technologies in scope were assessed against each other** in a strategic review of each main area (ITNs, IRS, passive emanators and outdoor transmission tools):

IN SCOPE

	Technology priority for the next 5 years	
ITNs	ITN (Novel/repurposed AI +/- Py) ITN durability, attrition and user acceptance	The need for new MoA ITN products in the market to combat resistance development and ensure net life/usage meets TPP targets
IRS	IRS (supporting continued implementation and availability of IVCC developed portfolio)	Highly-effective intervention, cost-effectiveness challenges.
Spatial emanators	Spatial emanator (non-pyrethroid) - new modes of action	High likelihood of PQ listing (2025/26), cost-effective implementation, the need for new MoA products to combat resistance development
	Spatial emanator (pyrethroid) – specific needs to support product class	
Outdoor transmission tools	ATSB 1st generation/2nd generation	Proof of effectiveness (epi studies, operational research), PQ listing
	Innovative technologies addressing outdoor transmission	The need for new outdoor biting transmission-blocking tools

OUT OF SCOPE

Genetic/sterile insect control	Genetic control (Gene drive/self-limiting) Wolbachia
Personal protection	Bite proof clothing
Indoor transmission tools	Eave tubes
Outdoor transmission tools	Odor-baited trap (for control)
IRS	IRS for consumers
ITNs	ITN (Py + Py+PBO)
Endectocides	Ivermectin

This assessment is not static!

Continuous monitoring and evaluation will be performed based on a range of factors, including: product development progress, development pipeline, new tools, IRM monitoring.

IVCC strategy

● Our Vision

To improve and **save lives** of vulnerable populations impacted by mosquito-borne diseases, through the delivery of a sustainable tool-box of vector control solutions.

● Our Mission

By **building partnerships**, we enable the **creation of innovative solutions** to address the evolving challenges in vector control across disease-affected countries

● Portfolio strategy



Insecticide Treated Nets (ITN)

The availability and accessibility of multiple non-pyrethroid ITNs to mitigate resistance build up



Indoor Residual Spraying (IRS)

Maintain IRS as a tailored vector control intervention



Spatial emanators (SE)

Enable adoption of spatial emanators with multiple active ingredients



Outdoor Transmission Tools

Advance innovative technologies to address outdoor transmission and alternative insecticide delivery systems.

Preventing transmission indoors

Preventing transmission outdoors

● Critical success factors

Industry Partnership

Policy and advocacy engagement

Country Focus

Funding mobilisation

Innovation Leadership

In-House & External Expertise

Operational Integrity

● Our values

Partnership – Innovation – Respect



Four portfolio strategic pillars



Insecticide Treated Nets (ITN)

The availability and accessibility by 2030 of multiple non-pyrethroid ITNs to mitigate resistance build up



Indoor Residual Spraying (IRS)

Maintain relevance of IRS as a tailored vector control intervention



Spatial Emanators (SE)

Enable adoption of spatial emanators with multiple active ingredients



Outdoor Transmission Tools

Advance innovative technologies to address outdoor transmission and alternative insecticide delivery systems

Goal

Objective

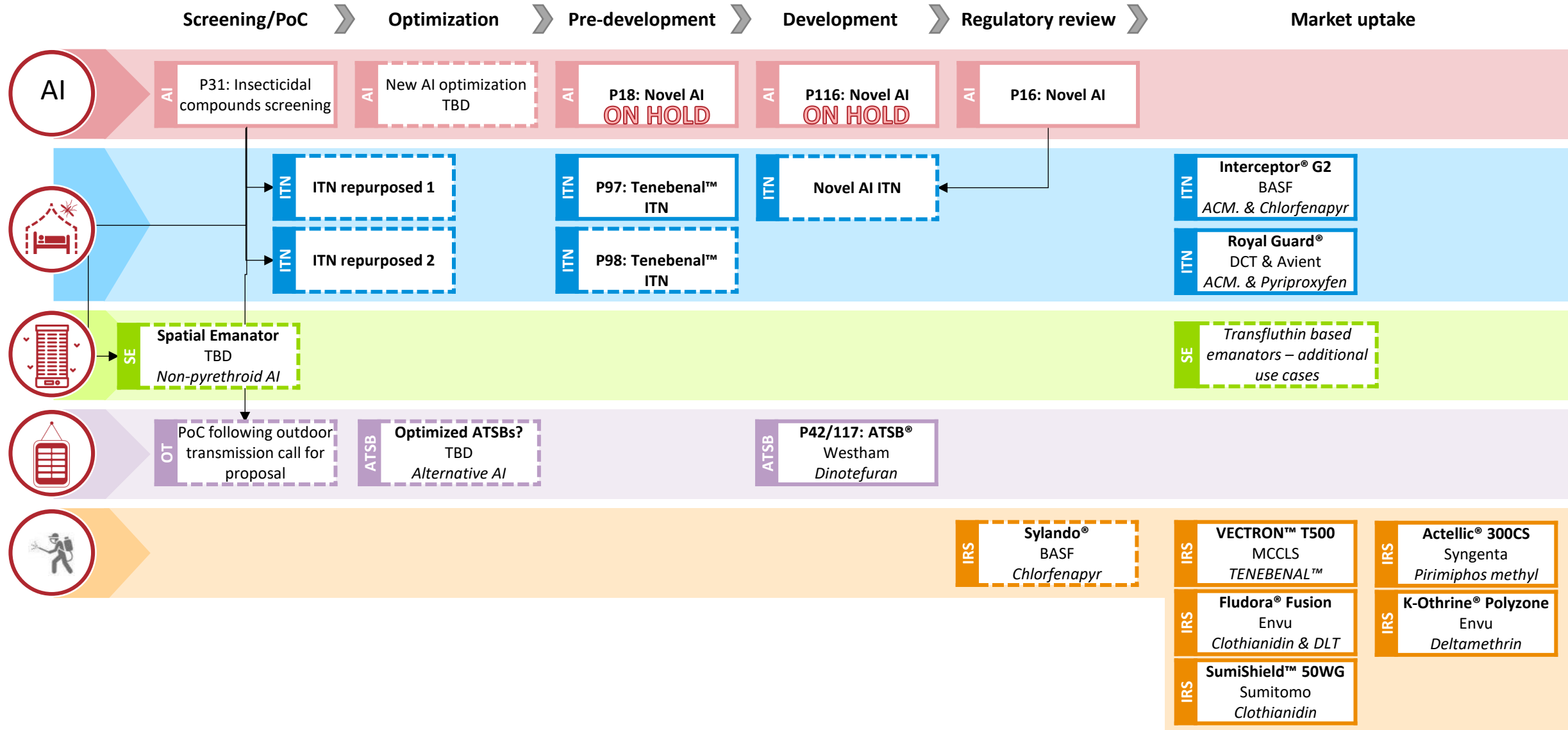
- Ensure development and availability of a cost-effective broflanilide-based ITN
- Finalise development of one **novel AI** for use in ITN
- Identify and develop **additional (re-purposed) chemistry**
- Identify and develop routes to improve **cost effectiveness of ITNs**

- Encourage industry engagement in IRS to maintain the current product portfolio of affordable, high quality IRS products
- Catalyse interest in complementary funding streams for IRS
- Maintain a minimum of 3 different (non-PY) modes of action for IRS that are effective against resistant mosquitoes

- **Confirm validity** of Spatial Emanators for outdoor public health use (technical & market aspects)
- **Sustain effectiveness** of spatial emanator product class anticipating potential for resistance
- Define optimal **use cases and deployment strategies** for spatial emanator uptake by country programs

- **Evaluate PHV** of ATSB, including optimal **deployment and use cases**
- Identify **innovative technologies** addressing outdoor transmission (and alternative insecticide delivery)
- Assess the outdoor toolbox in **other geographies** and against **other mosquito borne diseases**

What does that translate to in terms of portfolio overview



Seven Critical Success Factors

IVCC's 7 Critical Success Factors and Objectives

- Influence change to maximize impact of interventions
- Contributing to policies for product evaluation and usage

Policy and Advocacy Engagement



Industry Partnership

Establishing strong partnerships with manufacturers, R&D based companies



Country Focus

Facilitating input of country actors in the creation of product development and expanded access

Sustaining established funders and securing diversified funding to support the delivery of IVCC strategy

Funding Mobilization



In-house & External Expertise

Securing the necessary internal (career progression, recruitment) and external (ESAC, partnerships, consultants) expertise

- Leverage technical and scientific platforms to evaluate new technologies for vector control.
- Identify innovative ways to ensure product access to most vulnerable populations.

Innovation Leadership



Operational Integrity

Aiming for efficient governance and driving for Equity, Diversity & Inclusion in everything we do

The IVCC Organisation

CEO - Justin McBeath

Director of Strategy, Portfolio and Project Management (LT)
(Mathias Mondy)

Director of Technical Development (LT)
(Derric Nimmo)

Director of Market Access & Country Engagement (LT)
(David McGuire)

Director of Communications & Operations (LT)
(Chris Larkin)

Senior Finance Manager (LT)
Leo Smedley

Senior Project Manager
Fred Yeomans

Group Legal and IP Advisor (50%)
David Worrall

Technical Manager (60%)
Jason Richardson

Senior Technical Manager (Entomology)
Janneke Snetselaar

Senior Technical Manager
Graham Small

Senior Advisor: Access and Strategy LT
Tom McLean

Country Engagement Manager
Andrew Saibu

Technical Co-ordinator- Market Access
Christen Fornadel

Communications Manager
Laura Roberts

Senior Project and Business Administrator
Karen Johnson

Finance Officer
John Hughes

Senior Project Manager
Danielle Brennan

Legal Officer
Terri-Lee Holmes

Technical Officer (Liverpool - Q2 2024)

Technical Officer (Liverpool - Q2 2024)

Senior Market Insights and Access Manager
Ioana Ursu

Proj & Bus Administrator
Sara McManus

Senior Project Manager
Larry Norton

Product Registration Advisor

Proj & Bus Administrator
Gary Ward

Project Manager
Marlize Coleman

Technical Manager (ATSB)

Market Access (ATSB) (50%)

Proj & Bus Administrator
Helen Fletcher

Consultancy contracts



THANK YOU FOR YOUR ATTENTION

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