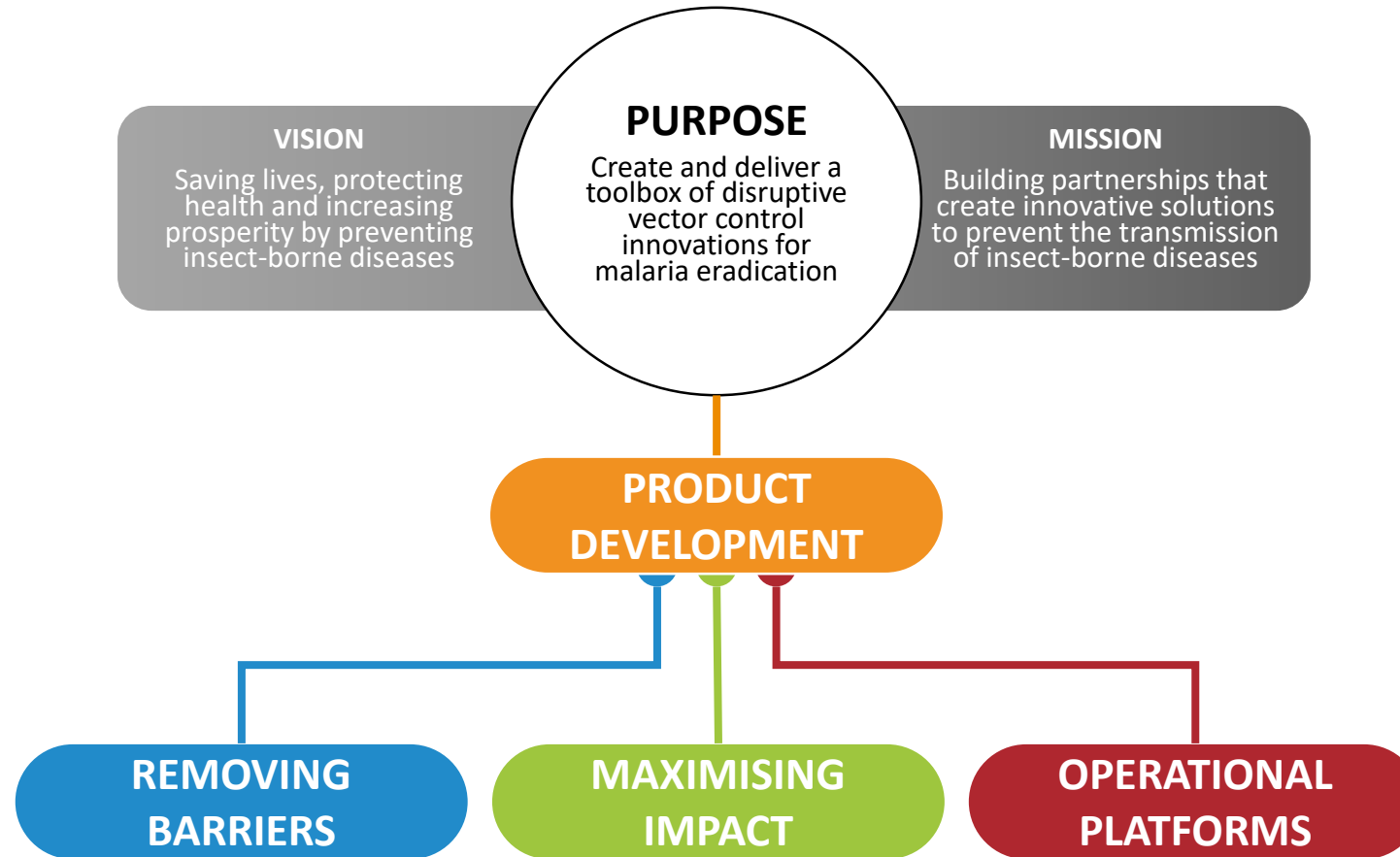




# IVCC Portfolio

Mathias Mondy, February 2023

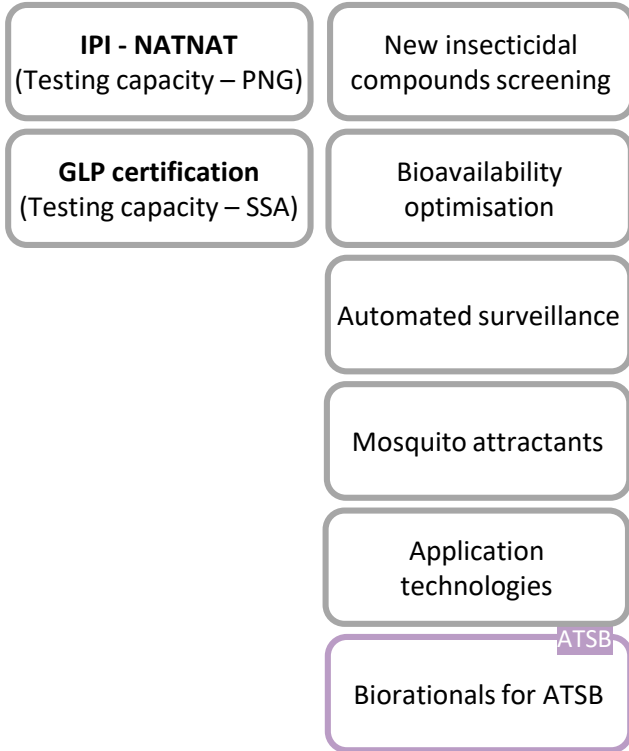
# IVCC's Purpose & Strategy



## ENABLING INNOVATION

### Capacity building

### Innovation pool



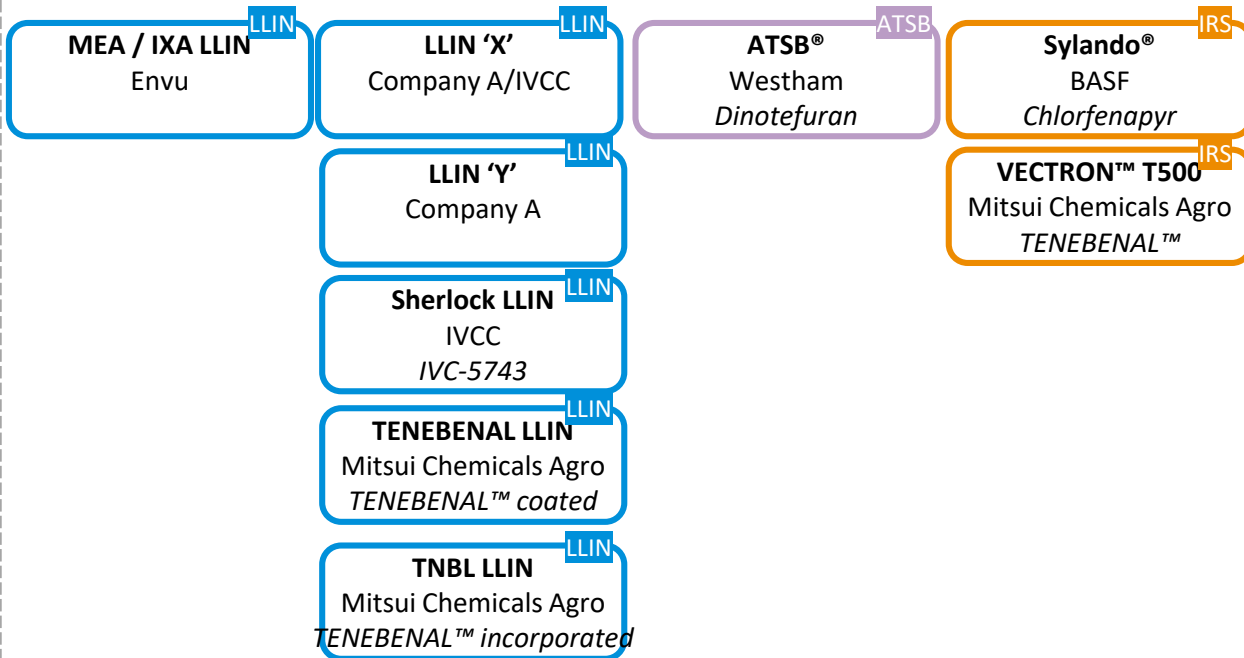
## CREATING SOLUTIONS

### Optimization

### Pre-development

### Development

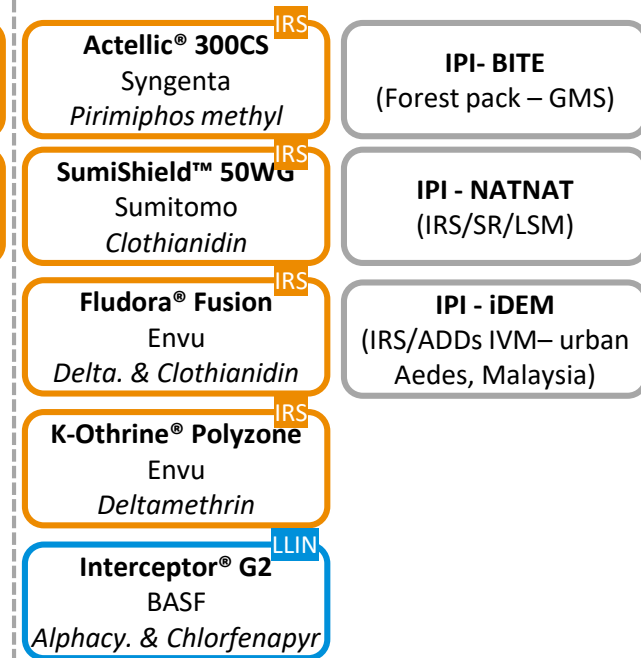
### Regulatory review



## IN MARKET EVALUATION

### Market uptake

### Integrated Vector Management



# ATSB epidemiological evaluation



Product: Attractive Targeted Sugar Bait

Manufacturer: Westham

Insecticide: 0.1% dinotefuran



Community engagement



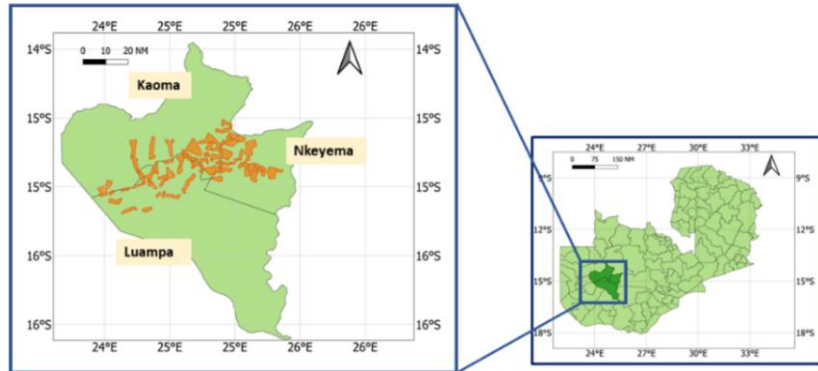
Product deployment



Cohort monitoring

# ATSB epidemiological evaluation

Zambia

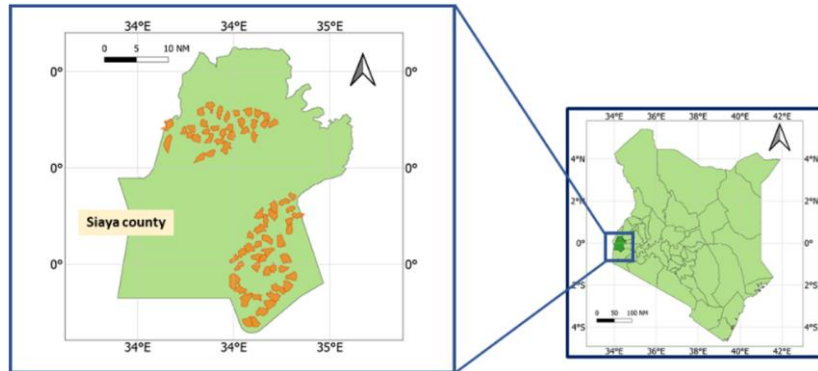


**70 clusters**  
35 per arm,  
40,000 bait stations

**Cohort study**  
2,450 Children age 1-14  
2 x 6 month seasonal  
cohorts  
1 x interim analyses

**Entomological monitoring**  
20 clusters  
8 months

Kenya

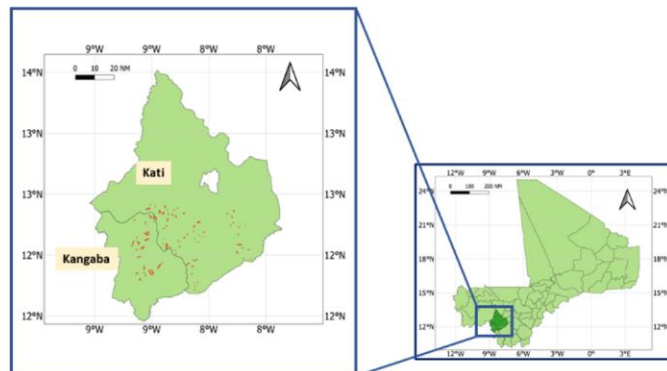


**70 clusters**  
35 per arm,  
80,000 bait stations

**Cohort study**  
Children age 1-14  
4 x 6 month cohorts  
2 x interim analyses

**Entomological monitoring**  
16 clusters  
12 months

Mali



**76 clusters**  
38 per arm,  
52,000 bait stations

**Cohort study**  
Children age 5-14  
2 x 8 month cohorts  
1 x interim analyses

**Entomological monitoring**  
30 clusters  
24 months

# Indo-Pacific Initiative



## New laboratory & insectary built in PNG

- New semi-field systems built for testing new tools
- New entomology staff recruited and trained
- Indoor Residual Spray (IRS) community trial started (12 months completed)
- Trials planned for spatial repellents and LSM



## Semi-field trials of bite prevention tools completed in Thailand

- User acceptability studies completed
- Cambodia field entomology trial of forest pack tools showed 95% reduction in mosquito landing
- Market research underway to guide development of marketing strategy to support scale-up of BPT in Cambodia
- Implementation trial began in October
- Cambodian NMCP and PMI interested in spatial repellent product to support elimination



# Impact through new products and market shaping interventions

## NGenIRS

(IRS market shaping intervention)

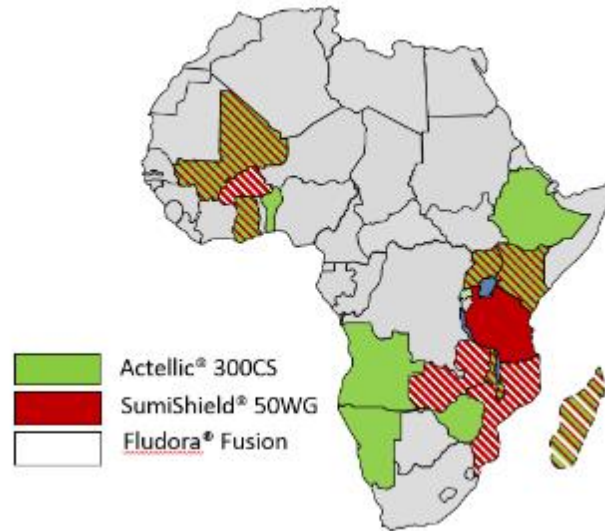
135 million people protected

22% - 47% drop in cases

5.6 million - 11.2 million cases averted

16,586 and 33,173 lives saved

10 of 16 NgenIRS partner countries sprayed multiple 3GIRS products in 2019



5.6 m - 11.2 m cases averted; 16,586 to 33,173 lives saved since 2017

## New Nets Project

(LLIN market shaping intervention)

The NNP (2018-2022) is an initiative established by Unitaid and the Global Fund in partnership with PMI and working with key stakeholders to catalyse the introduction of next generation ITNs, those with two active ingredients (aka dual AI ITNs)

### NNP countries

- Evaluation Pilots**
- Burkina Faso ('19)
  - Mali ('20)

**Malaria Incidence**  
**Interceptor G2: 44% – 46% fewer cases than pyrethroid LLIN over 2 years**

- Ghana ('21)
- Liberia ('21)
- Malawi ('21)
- DRC ('21)
- Cameroon ('22)
- Niger ('22)
- Burundi ('22)

### RCTs

- Benin ('20)
  - Tanzania\* ('19)
- \* Funded by MRC, Wellcome and BMGF

35m IG2 LLINS distributed in 13 countries; rough, preliminary estimate of 8.5 m cases and 20,000 deaths averted

# Conclusion

## **INNOVATION**

Bringing new vector control products is essential to enable malaria eradication

## **TECHNOLOGY TRANSFER**

Technologies developed are expected to be useful across a wide range of vectors

## **ACCES & MARKET SHAPING**

New technologies require specific support for market uptake and deployment at scale



# Thank you for your attention

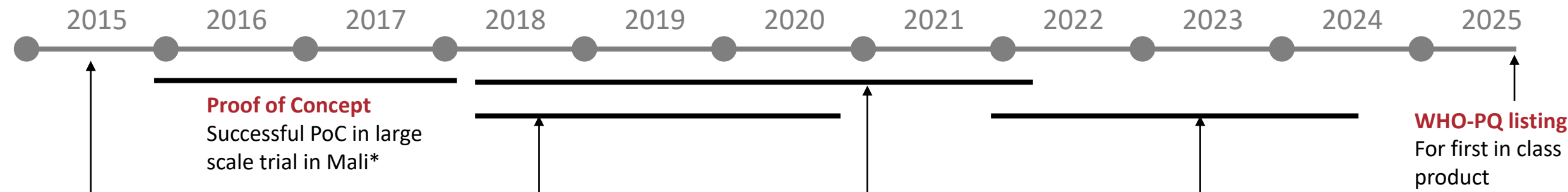
## Funding Partners



[www.ivcc.com](http://www.ivcc.com)

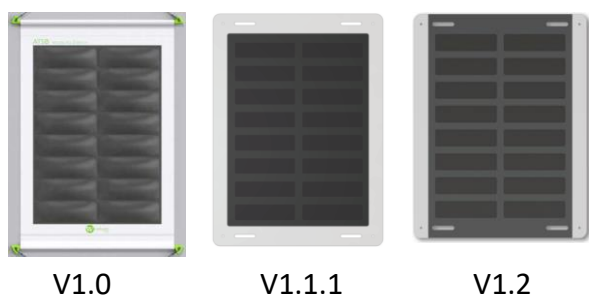


# Addressing Outdoor Transmission: ATSB



**Outdoor Transmission call for proposal**  
Collaboration initiated between Westham and IVCC

**Product optimization**  
Strengthening and manufacturing scale up

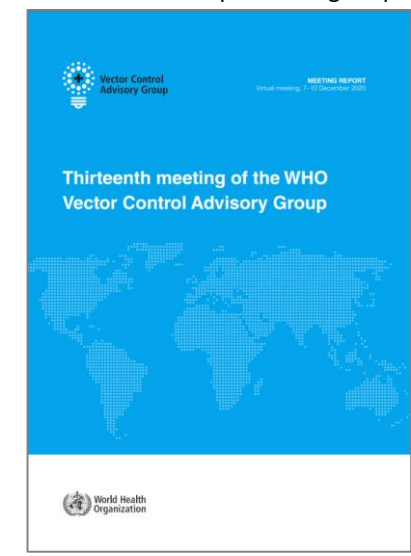


**Entomological evaluation**  
At scale in Mali (UCRC, LSHTM, Miami U.), Kenya (LSTM, KEMRI, CDC) and Zambia (PATH, Macha RT., John Hopkins U.)



**Epidemiology evaluation**  
Open-label two-arm CRCT trial design in Mali, Kenya and Zambia

VCAG review of epidemiological plan



\* <https://malariajournal.biomedcentral.com/articles/10.1186/s12936-020-3132-0>