



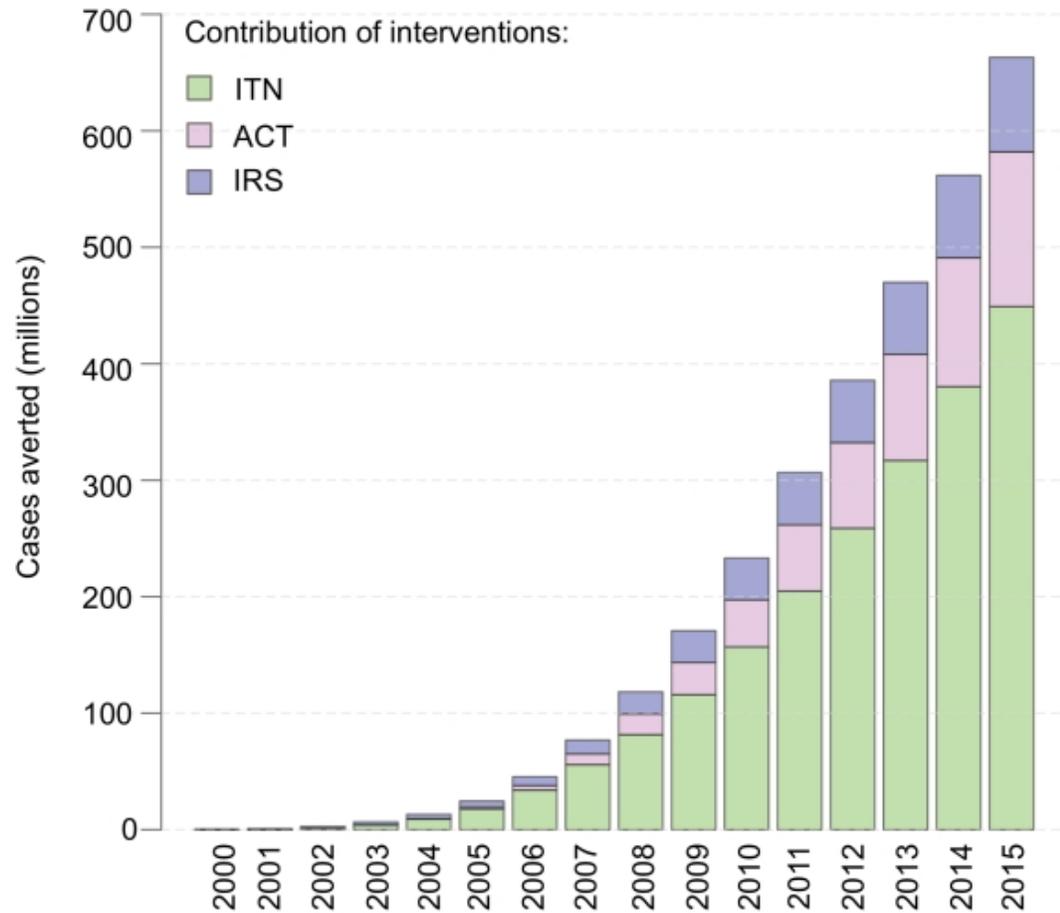
Product Development Lessons Learned

Mathias Mondy | May 2021

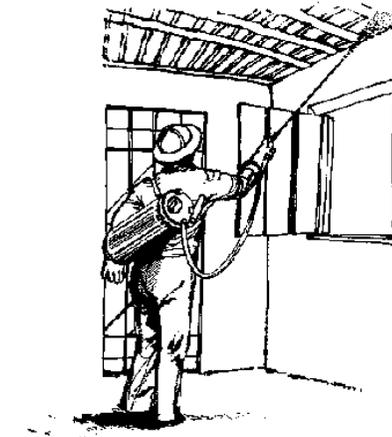
IVCC: A Product Development Partnership (PDP) for Vector Control



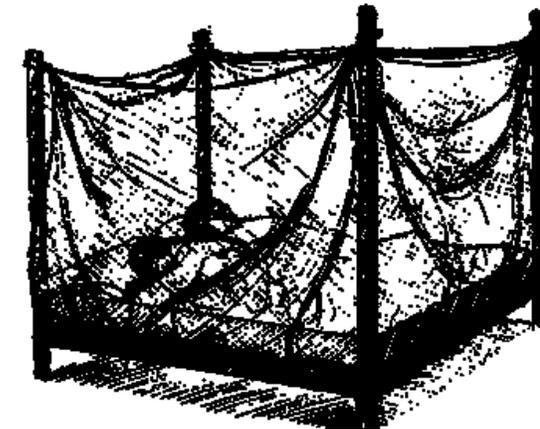
Key Vector Control Interventions And Their Contribution



Indoor Residual Spray (IRS)



Insecticide Treated Net (ITN)



Let's Rewind The Clocks To 2010...



Over 1 million people die of malaria per year throughout the world

Manufacturers' investment in the development of IRS is at best opportunistic

It is estimated to take 10-15 years for a novel insecticides to get to market

IRS is proven successful but is limited by logistic and residuality

Mosquitoes' resistance to pyrethroids frequency is fast increasing

A two-step approach

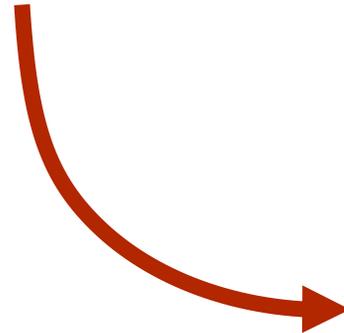
IVCC is supporting Syngenta for the development of a new generation of IRS products as well as for the development of a novel insecticide

An innovative technology

Focus will be on a class of chemistry not used for vector control and on the development of a long-lasting formulation (season long control)



Technical challenges	
A new insecticide for VC	→ Pirimiphos Methyl (Group 1B Insecticide)
Residuality	→ Micro-encapsulation (up to 1-year residuality)



Economic challenges	
Expensive formulation	→ Market shaping intervention (NgenIRS)
IRM	→ Rotation with alternative products (also 3 rd gen.)

**135 million
people protected**

Estimated number of people protected throughout Africa by IRS programmes receiving NgenIRS support (2016-2019)

**22% - 47%
drop in cases**

Reduction in confirmed cases recorded in the public health system where NgenIRS impact data were collected, compared to similar regions without IRS

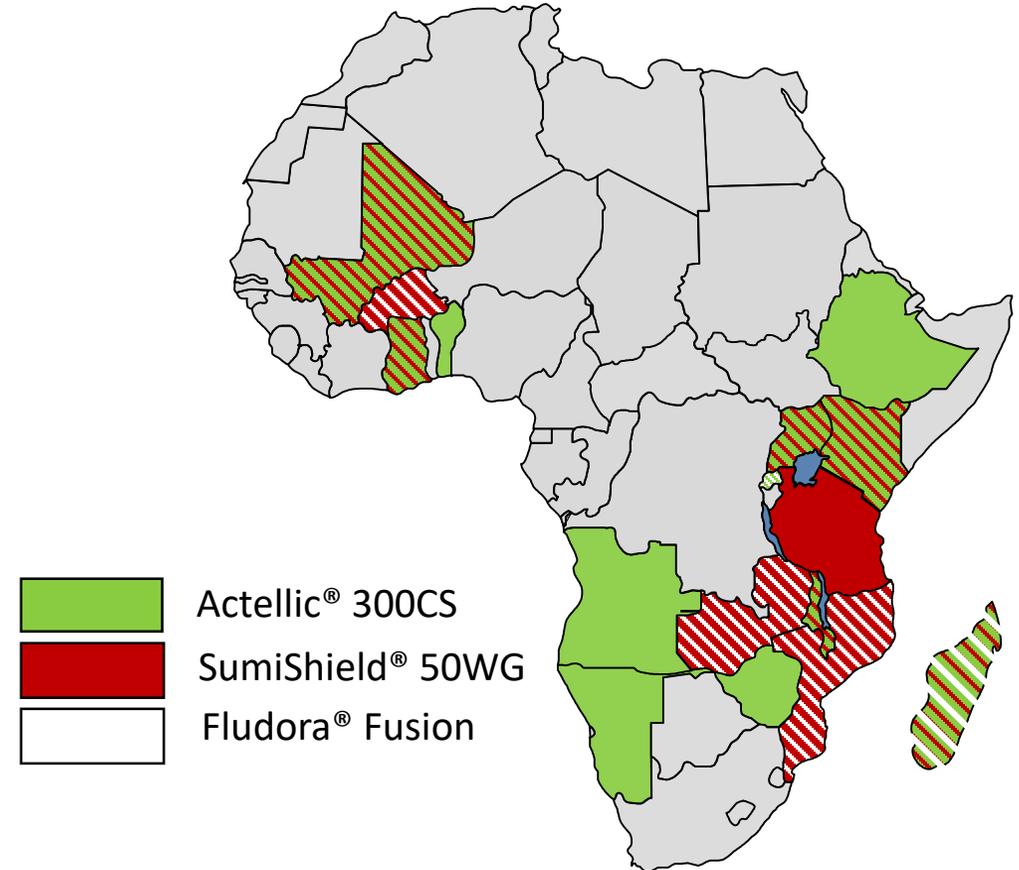
**5.6 million - 11.2 million
cases averted**

Estimated number of cases averted by NgenIRS supported IRS campaigns (2016 - 2019)

**16,586 and 33,173
lives saved**

Estimated number of lives saved by NgenIRS supported IRS campaigns (2016 - 2019)

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

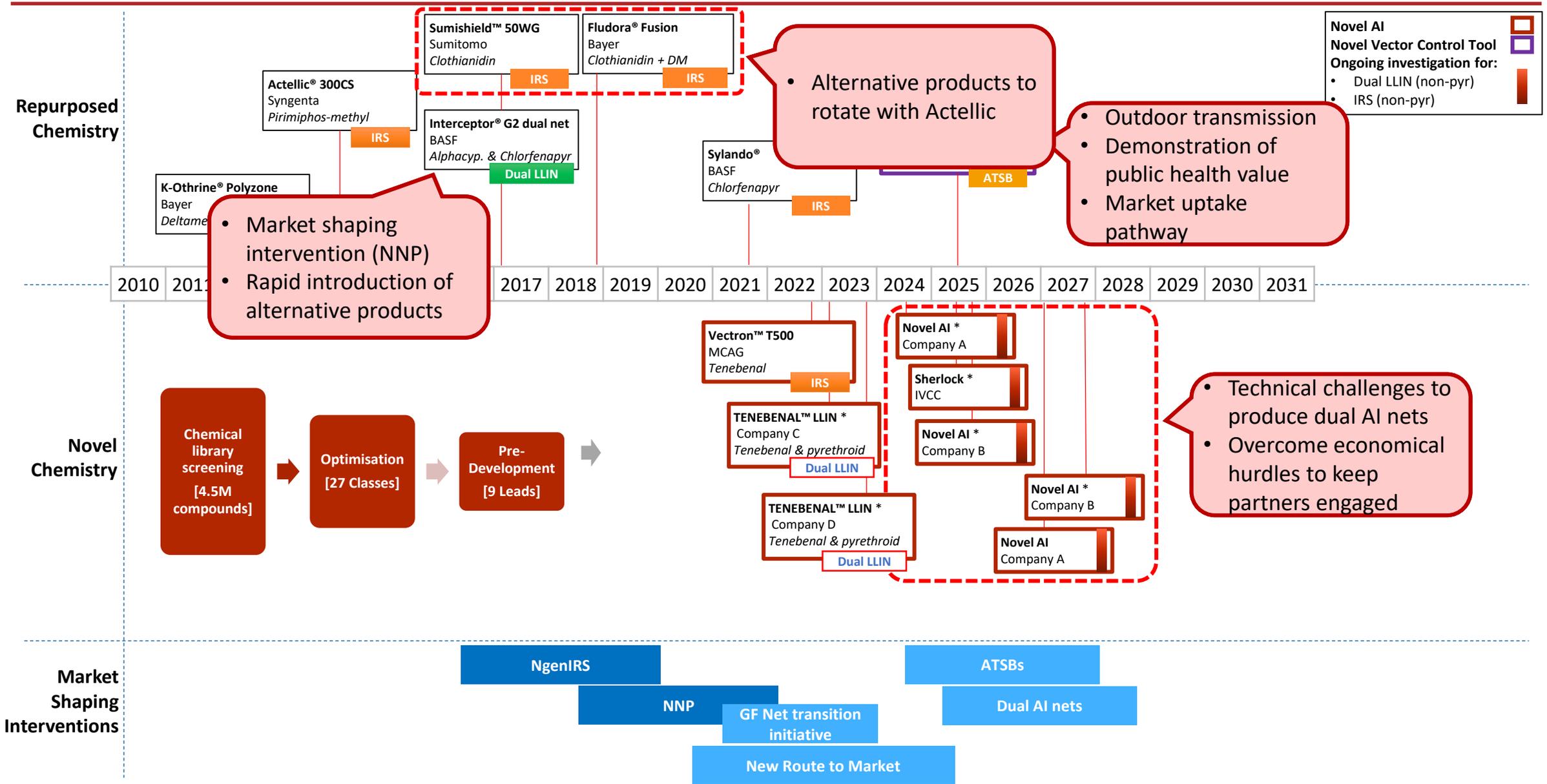


- **Focus on technologies addressing the most important public health challenges**
 - Demonstrate public health value
 - Focus on products allowing large coverage
 - Anticipate resistance build up products for rotation of different modes of action

- **Innovate to add features impacting the malaria eradication model**
 - Residuality/durability
 - Ease of use

- **Support market uptake AND increase alternatives/competition**
 - Market shaping interventions
 - Support development of alternative products
 - Facilitate and inform IRM strategies

IVCC portfolio





Developing innovative solutions in vector control

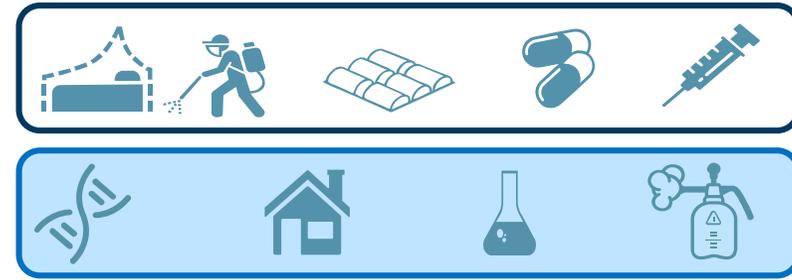


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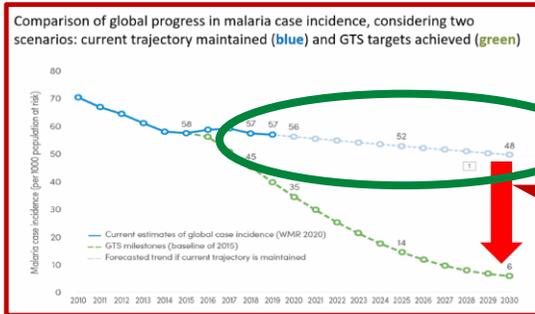
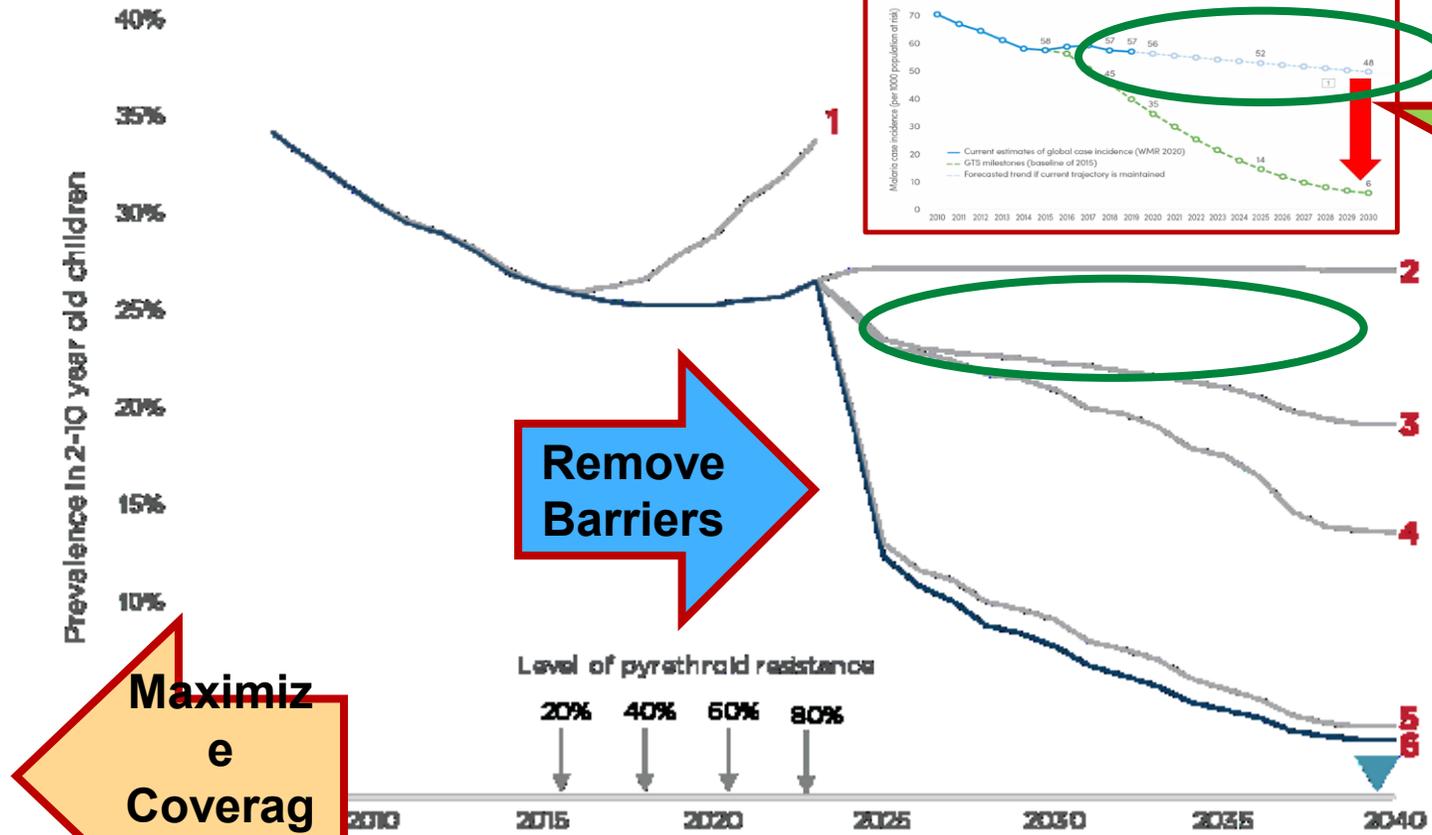
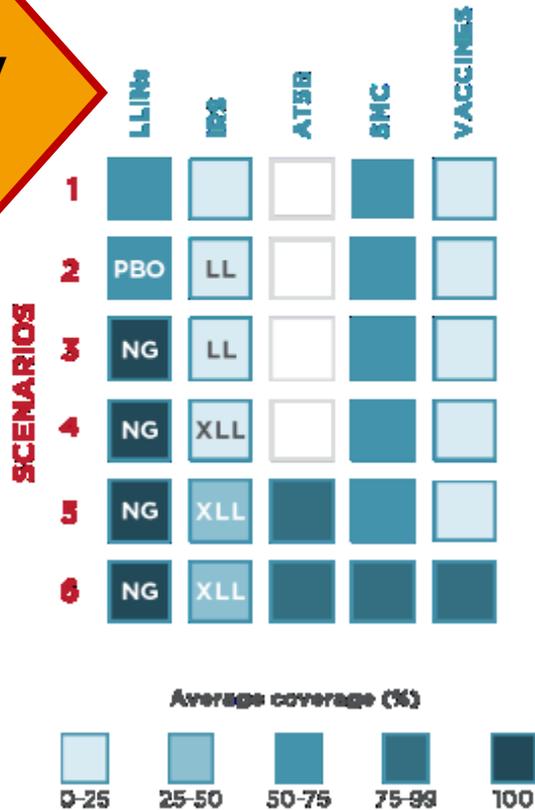


Modelling Intervention Impact in Africa

The role of vector control is critical in reaching our goal of eradication, supported by wider IVM solutions including vaccines, drugs and gene drives.



Effective Tools



Maximize Impact

Remove Barriers

Maximize Coverage

Address The Gap