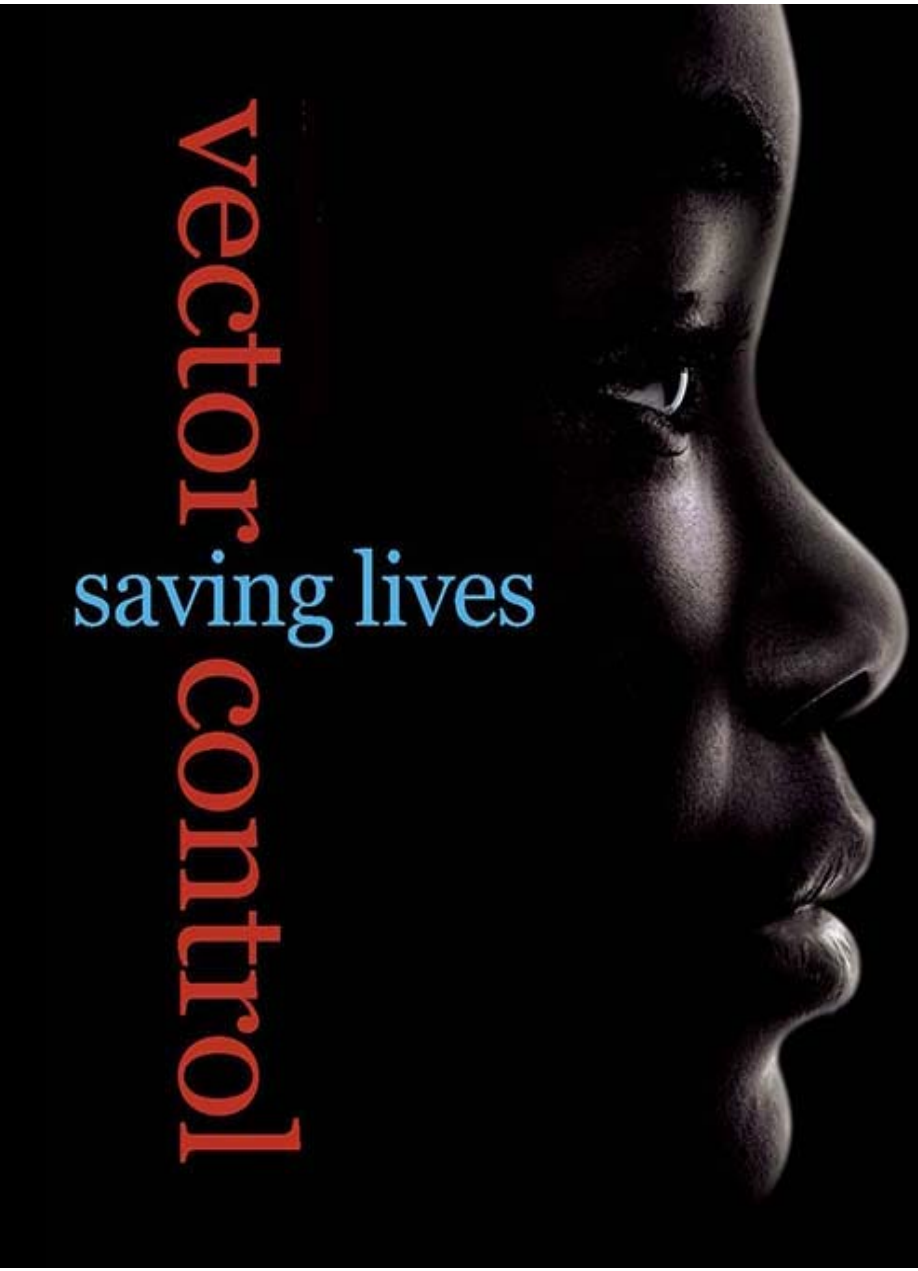


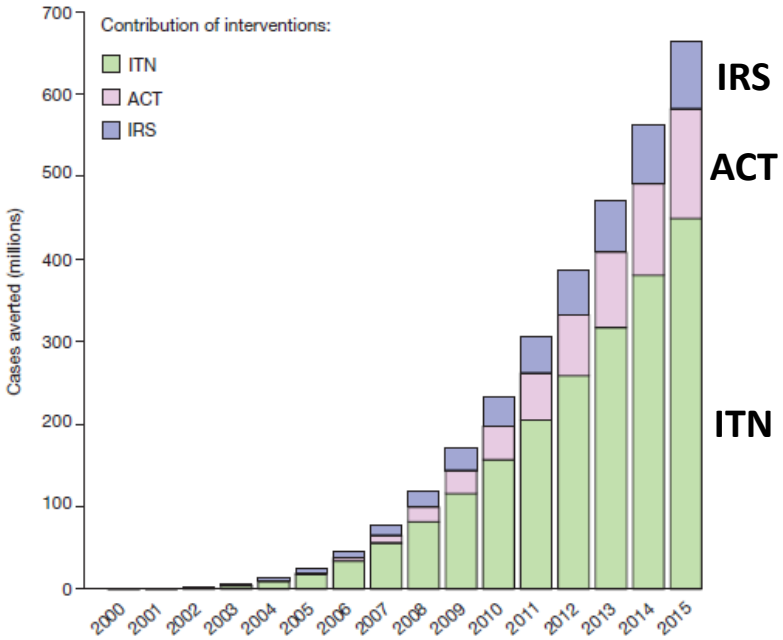
Next generation IRS Project background

NgenIRS

IVCC

The Vector Control Challenge

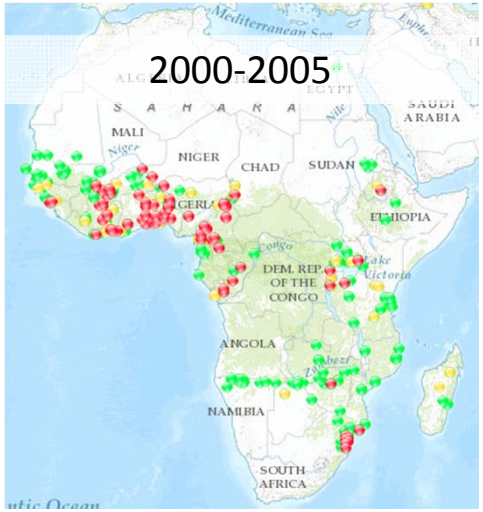
A proven tool: **Vector Control**

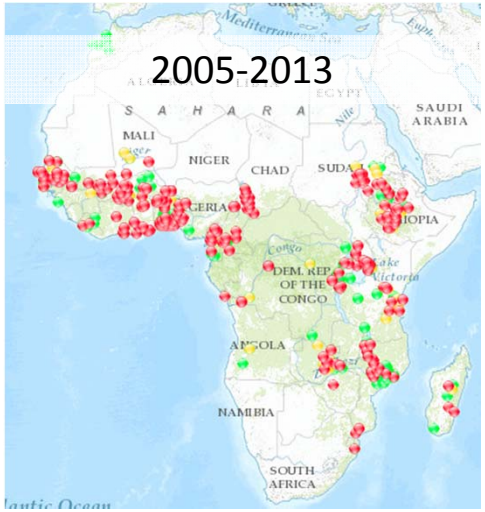


Since 2000

- 663 million clinical cases of malaria averted
- 68% of malaria cases averted by ITN
- 11% of malaria cases averted by IRS

The threat: **Insecticide Resistance**

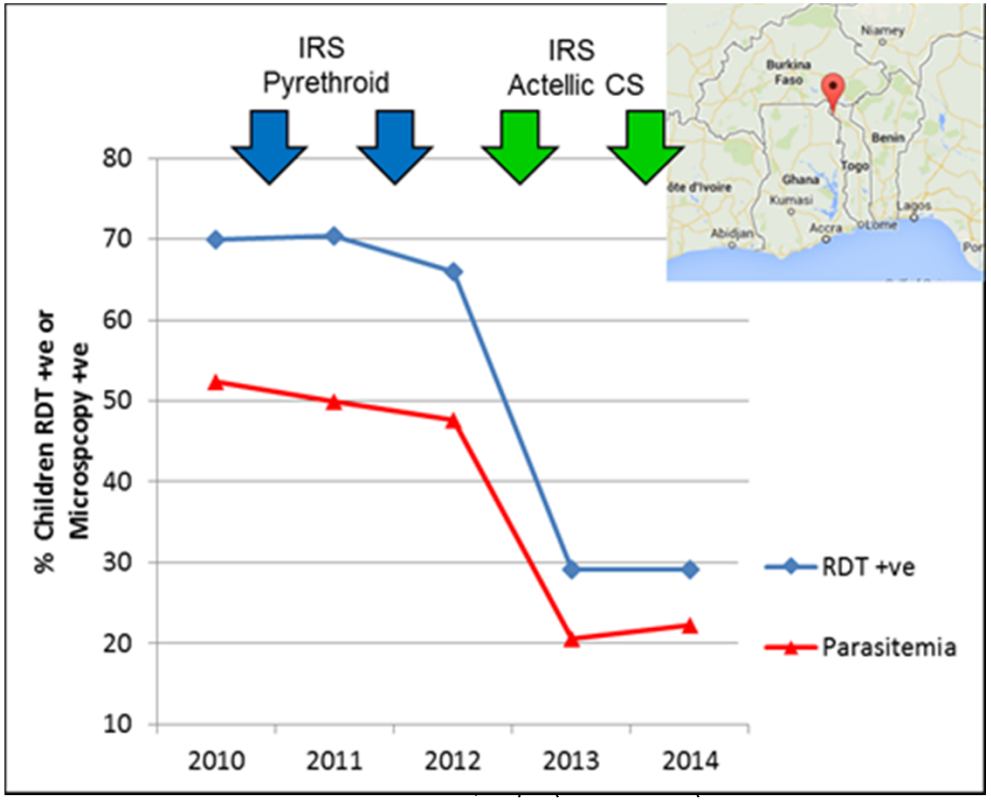




- Increasing incidence and scope
- Rapid development
- Resistance to all four classes
- Entomological impact understood
- Operational impact harder to assess

The effect of malaria control on *Plasmodium falciparum* in Africa between 2000 and 2015, S. Bhatt et al, Sep 2015

First programme use of Actellic CS: Impact in a region of high pyrethroid resistance

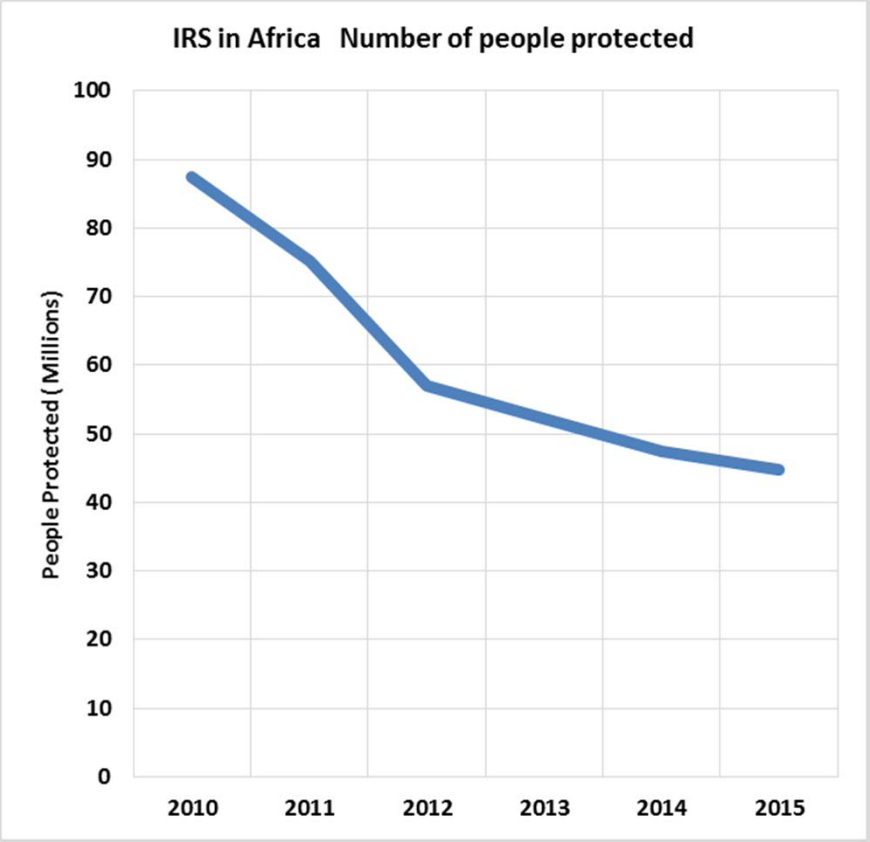


Bunkpurugu-Yunyoo district, Northern Ghana

- Mosquitoes Susceptible in 2010 Resistant by 2012
- Surveys of 824 children under-five.
- Data collected on IRS, ITN ownership and usage, fever in children under-five and anti-malarial treatment.
- For children under 5, height, weight and temperature measured, and capillary blood collected and tested for malaria parasitaemia and anaemia.

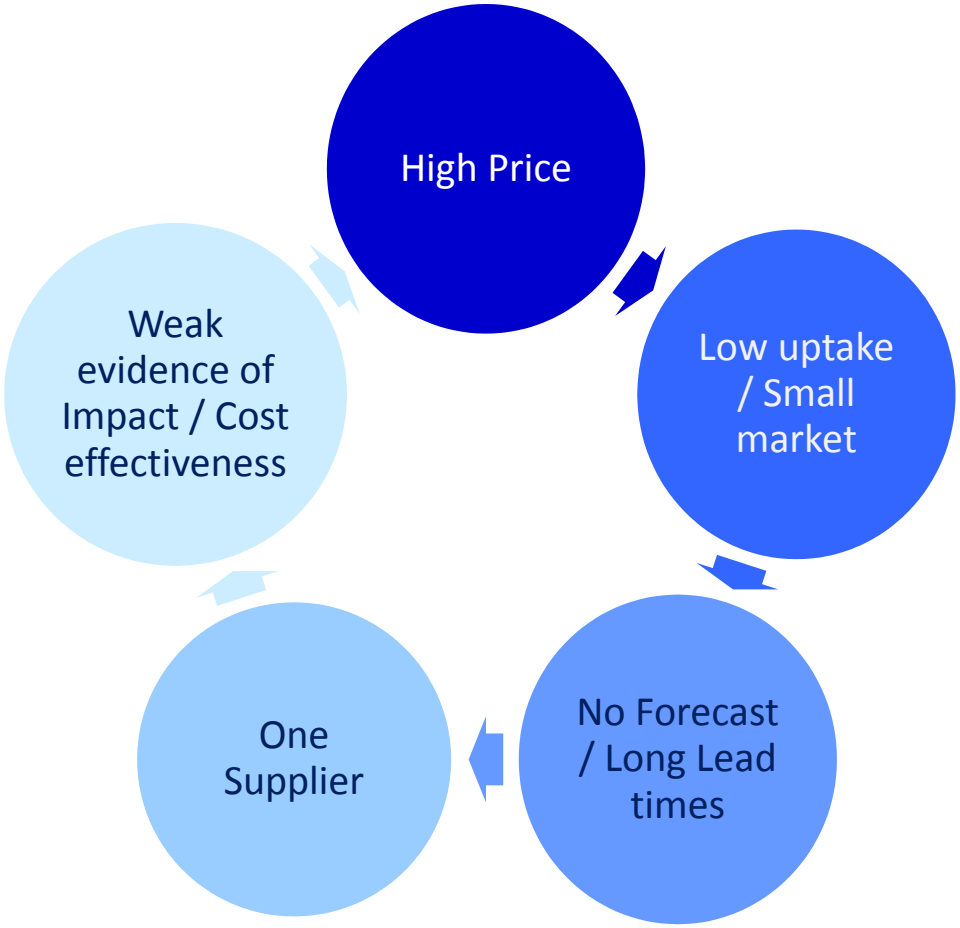
The first example of Third Generation IRS in action (3GIRS= long lasting resistance Breaking IRS Formulation)

IRS Coverage has fallen in Africa

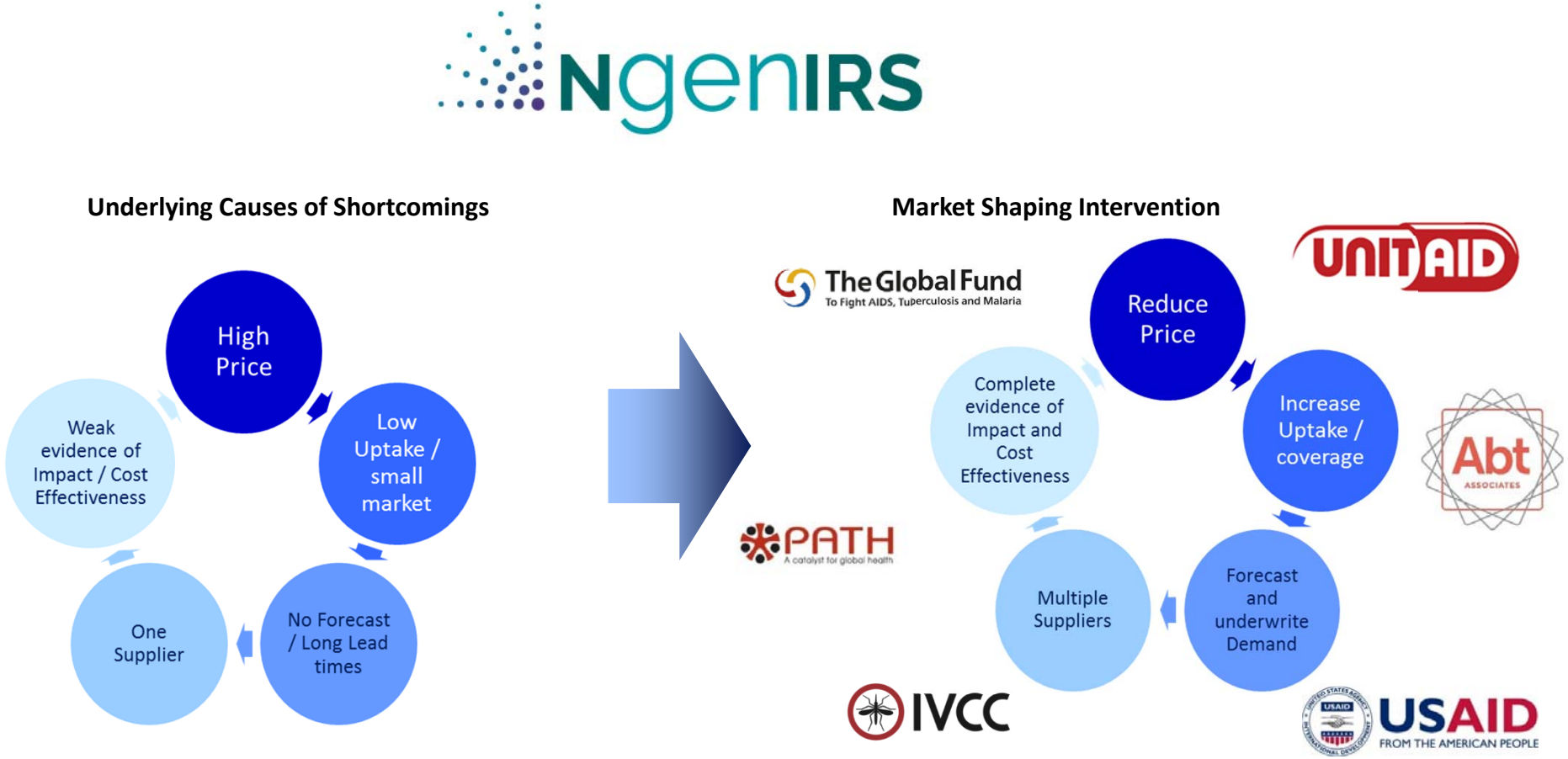


NMCP	The commodity price is way too high. We may stop IRS altogether 6 month forecast is impossible.
Funder (PMI / GFATM /....	Early results are outstanding. We have to reduce coverage if we use this product.
MACEPA	This might be a breakthrough in elimination strategy. Countries have little experience of using non-pyrethroids and none in long lasting IRS.
Company (Syngenta)	The market is tiny and chaotic. Every order is an event. There is no forecast. So cannot book mfr capacity The Cost effectiveness of this product is better than other non-pyrethroids.

Underlying causes of market shortcomings



Reversing the spiral :Next Generation IRS



Goal , Outcome and Outputs

- The OVERALL GOAL of this proposal is:
- **Increased use of 3GIRS products in Insecticide Resistance Management Programmes"**

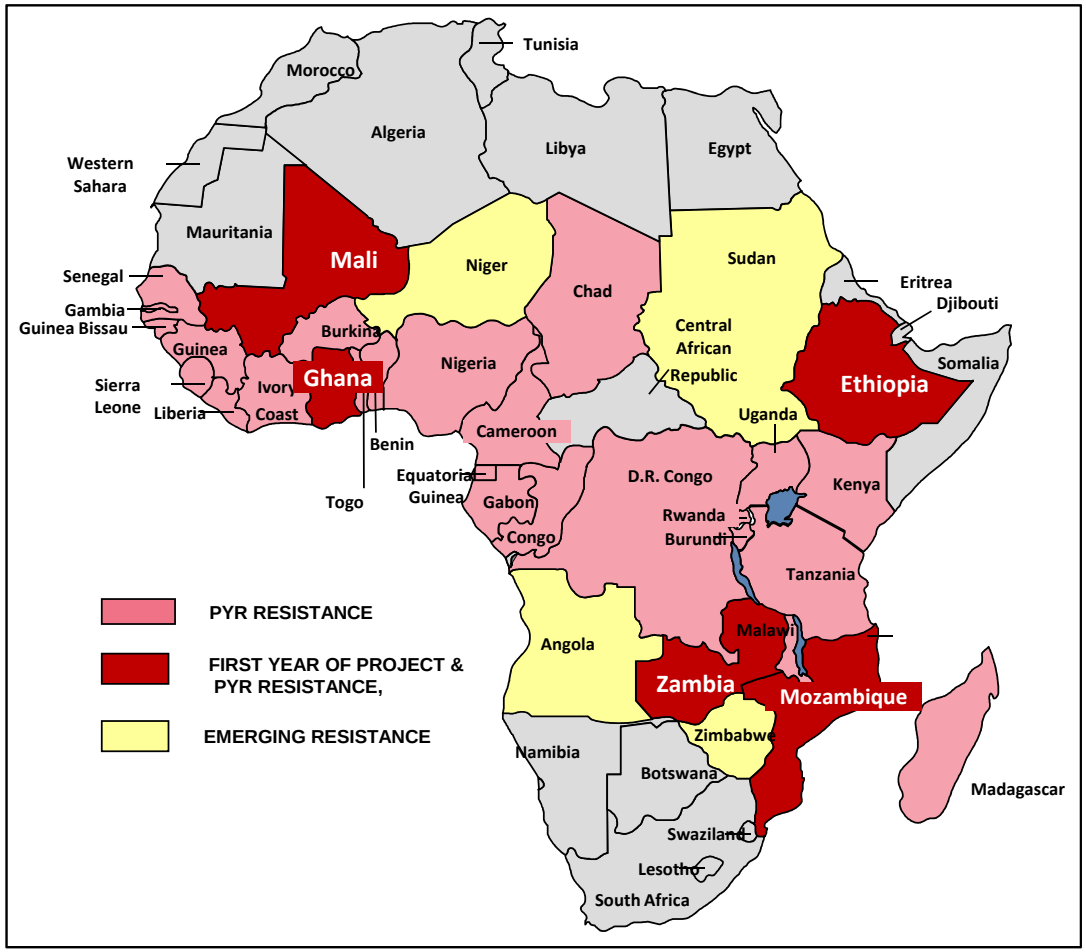
- **"A growing market for 3GIRS without intervention of a co-payment."**

- 1 Accelerated uptake of 3GIRS through co-payment mechanism
- 2 Improved global forecast for 3GIRS products
- 3 New quality assured products from several manufacturers available
- 4 3GIRS products are reduced in price
- 5 Cost effectiveness and impact research evidence is disseminated

NgenIRS Project First Year

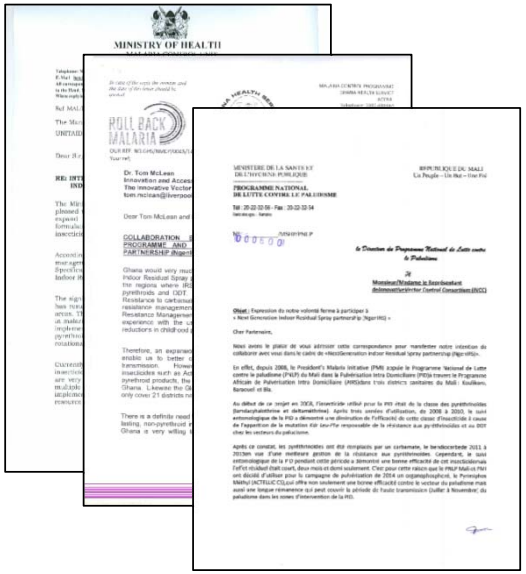
- First Year
  - Ethiopia
  - Ghana
  - Mali
  - Mozambique
  - Zambia

- Second Year potential
  - Benin
  - Tanzania
  - Uganda
  - Senegal
  - Madagascar
  - Rwanda
  - Zimbabwe



Widespread support

- **African Leaders Malaria Alliance**
- **WHO Global malaria Programme**



- **Country programmes**
  - Ethiopia
  - Ghana
  - Mali
  - Mozambique
  - Zambia

- **Industry partners**
- **Croplife (Industry association)**

What is the status today ?

- The NgenIRS project is up and running!

- See ngenirs.org