

Rotarians Against Malaria

Beating back malaria in times of COVID 19



RAM - working to eliminate malaria



Malaria

The World's most serious Disease

100 times worse than Covid19

World

- **216 million cases pa** *cf Polio, Covid19 2.5 million cases incr*
- **450,000 deaths pa** *mothers and children, Covid19 150,000 cases incr, aged*

PNG

- Av 60 – 340 cases/1,000 people - *higher in Sepik, ENB, NI (2017)*

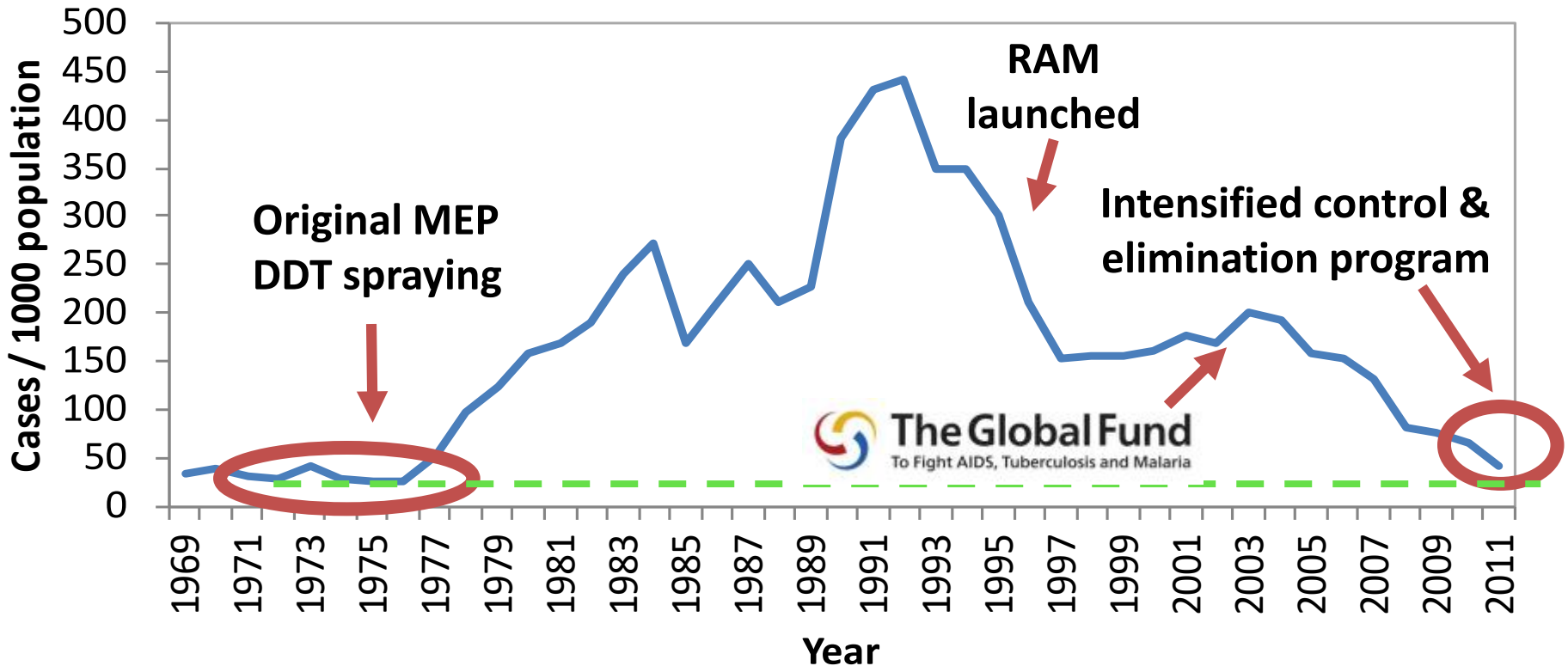
Solomon Islands

- **100-450 cases/1,000**

Rotarian Malaria Partners

Disease	COVID-19	Malaria
Type	Virus	Parasite
Organism	SARS-CoV-2	<i>Plasmodium</i>
Vector	None	<i>Anopheles</i> mosquitoes
R_0	$R_0 = 2.0-2.6$	Highly variable, $R_0 = 1 \leq \geq 3,000$
IFR	0.9% overall, rising to 9.3% age ≥ 80	0.2-0.45%, much higher at age < 5
Cases	2.4M and increasing rapidly	220M/year
Deaths	165K and doubling rapidly	435K/year
Geography	Worldwide	75% of cases in sub-Saharan Africa
Vaccine	In development	In trials, 30-40% reduction
Acquired immunity	Presumed but uncertain	Complicated dynamics
Prevention	Distancing, isolation, quarantine	Multimodal: healthcare, vector control, many others

Recent History of Malaria



Malaria in the Solomon Islands

Incidence of confirmed cases per 1000 population
(MHMS, Solomon Islands)

RAM Strategies

- Distribution of bed nets — *PNG, SI, Timor, Vanautu*
- Healthy Villages — *SI, drainage and cleanliness – vector control*
- Lavacide and insecticide sprays — *vector control*
- Chasing Malaria — PNG - *targetted intervention, cf Covid19*
- Malaria Education — *PNG, SI, Timor, Vanautu*
- Diagnosis and Treatment — *PNG, SI, Timor, Vanautu, RDT*

RAM Solomon Islands

- >200,000 Bed nets, Flip charts and brochures, larvacide & IRS.
- 21 Houses for MoH malaria staff
- Microscope diagnosis laboratories.
- 13 LLIN storage sheds.
- 20 boats + several vehicles - LLIN distribution.
- Tools for 160 villages (\$250,000).

Early days - Bed nets and Chemicals



Diagnostics

- Fever Symptoms – inaccurate, many other causes
- RDT – Rapid Diagnostic Tests – inaccurate
- Microscopy – accurate, slow, limited availability
- Need better tests – quicker, more accurate



HEALTHY VILLAGES

Planning / Training / Tools / Work – self help

Better reporting needed



IRS - Indoor Residual Spraying



RAM PNG



13 million bed nets distributed to 2019

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3 generations appreciate the protection of RAM bed nets



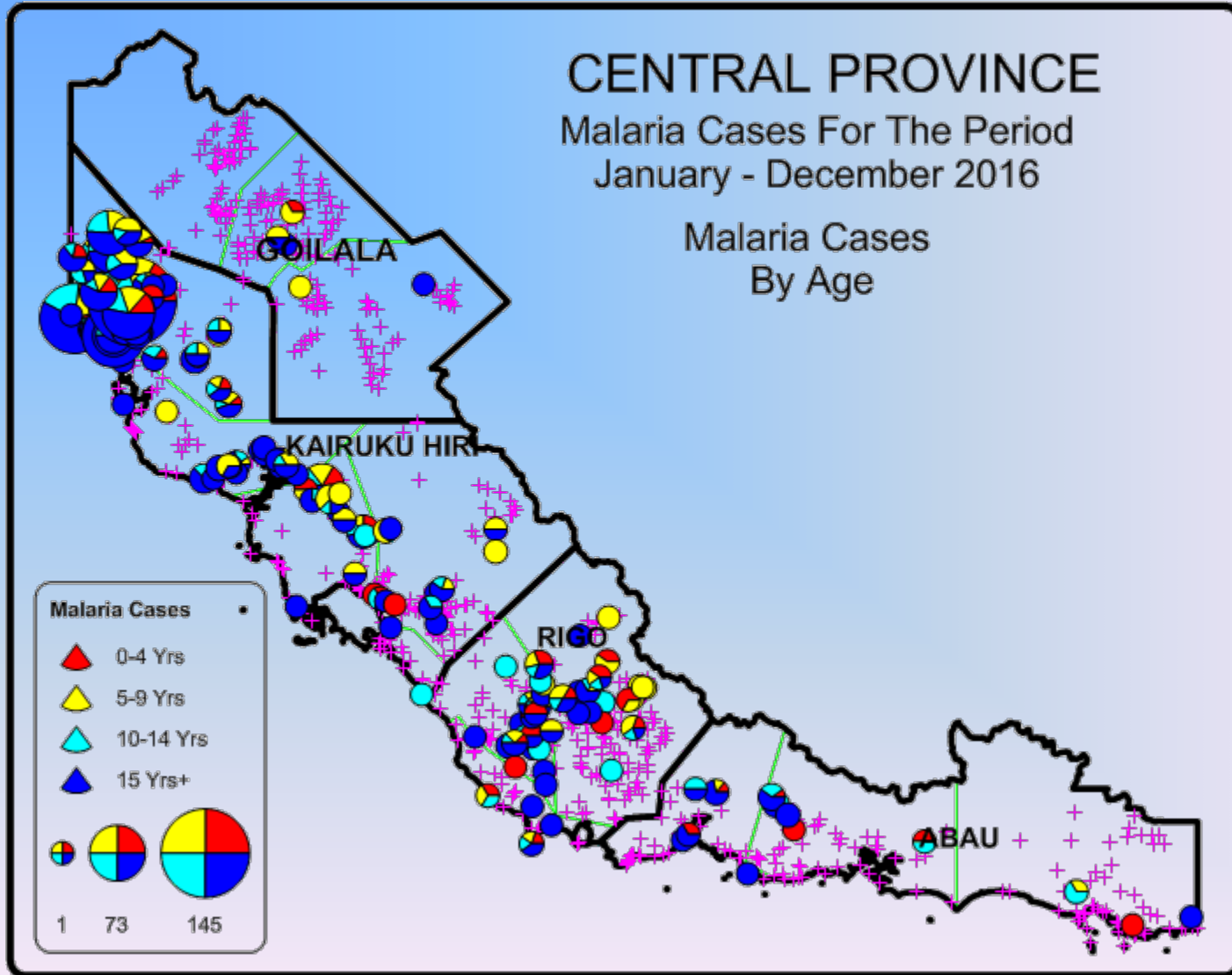
CHASING MALARIA

- RDTs & clinic records
- all + ve cases get a new LLIN
- volunteer, local student surveillance



RAM PNG Chasing Malaria Results

Elimination





LLIN HOUSEHOLD DISTRIBUTION Training Volunteers





LLIN HOUSEHOLD DISTRIBUTION

Unloading and Distributing LLINs



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LLIN HOUSEHOLD DISTRIBUTION

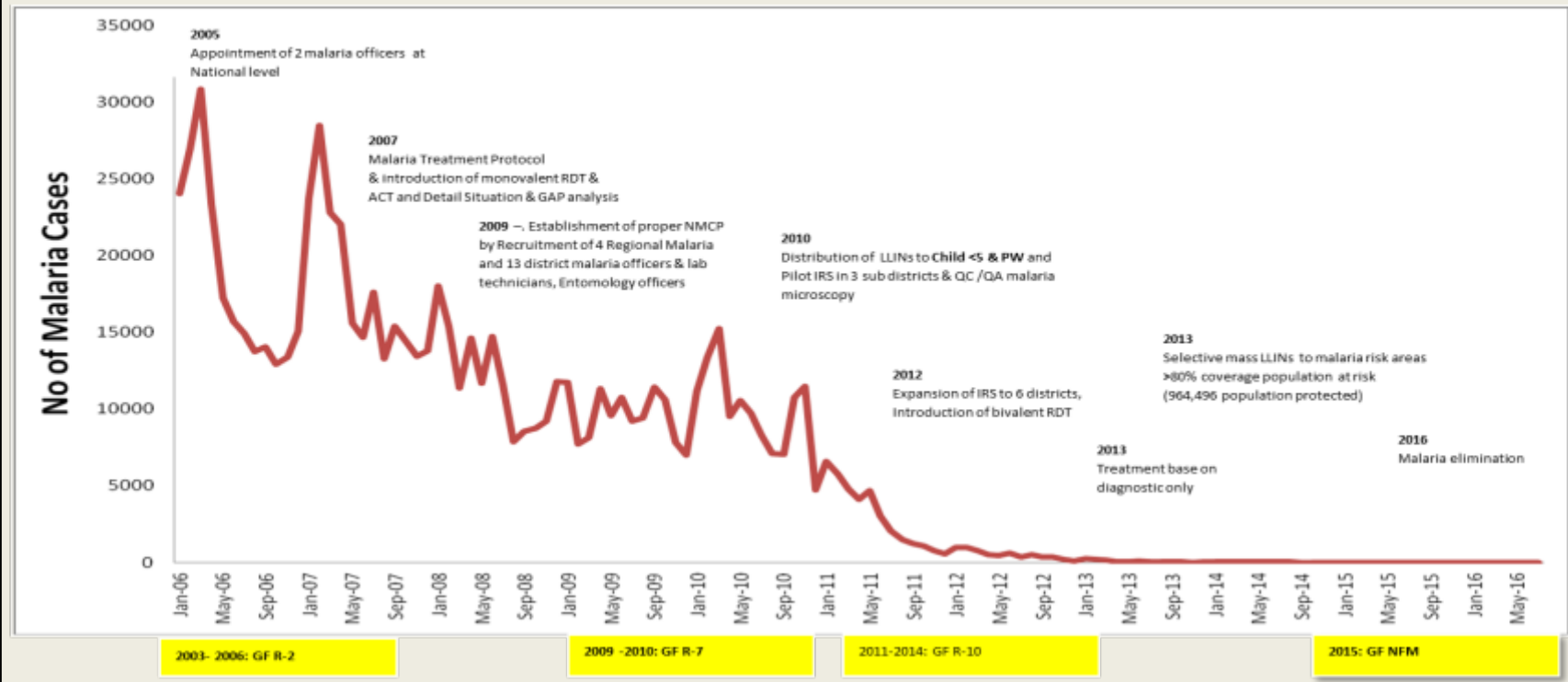
Moving LLINs to distribution site



Timor Leste 2018

National Malaria Programme Success Story: Control to Elimination Phase in 10 years

Trend and Milestones of Malaria in Timor –Leste 2006- 2017



Malaria Vaccine Fund raising project



Elimination of Malaria

- Accurate surveillance and mapping
- Maintain control measures
- A reliable field test for asymptomatic carriers
- New affordable drug as a reliable treatment
- Multi valent vaccine

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Focus and Persistence

Does all this look familiar?



RAM will do the hard yards !
RAM will be there until the end!
RAM will help eliminate malaria !

BUT

We need financial support from Rotarians to finish the job