Update of Malaria control in Lao PDR:

Louang Prabang

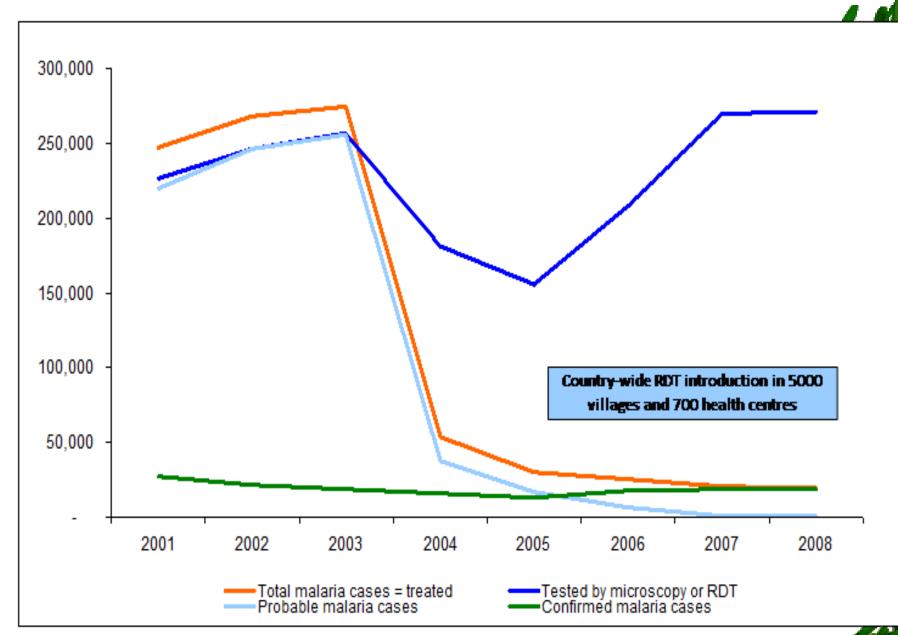
16th - 17th March 2010

by Dr Rattnaxay Phetsouvanh CMPE, Laos

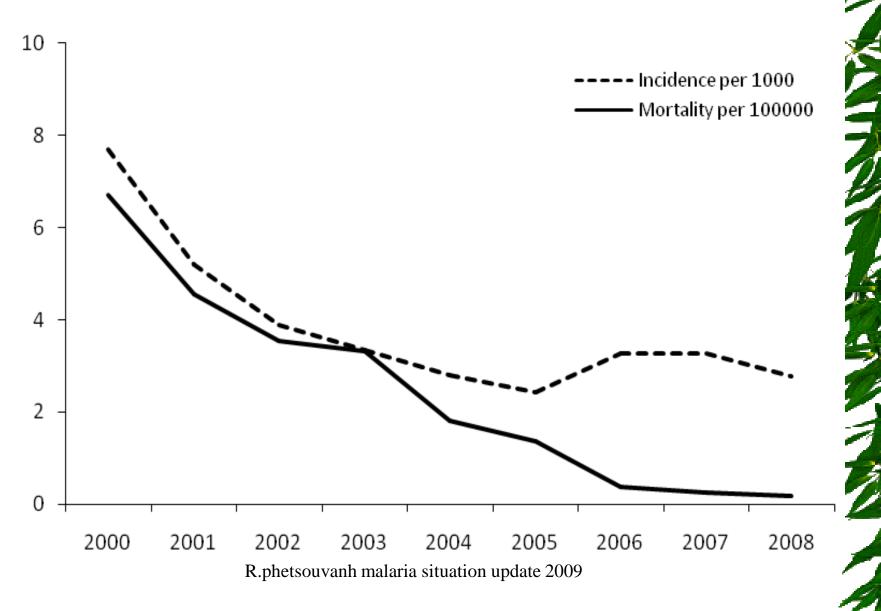
Main strategies last 5 years

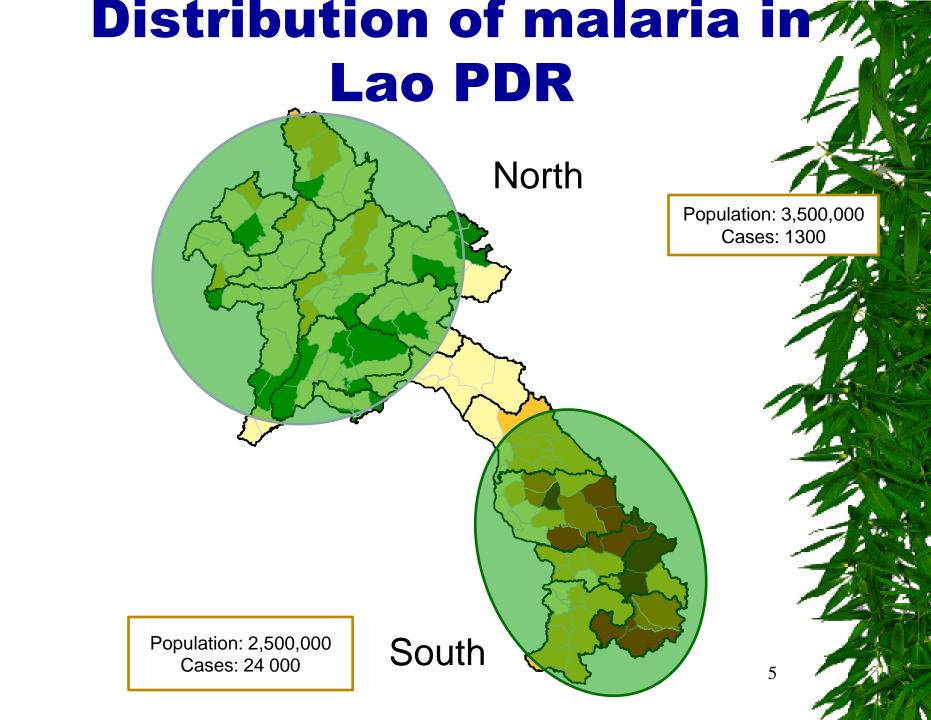
- Early diagnosis and treatment scale up of diagnosis with Paracheck RDT and treatment with ACT at village level covering approx. 5,000+ villages (total villages in Laos approx.10,000)
- Personal protection with ITNs and gradual scale up of LLN protecting targeting population at risk of approx. 3.6 million (population of Laos 5.7 million)
- Targeting EMGs (since 2008) in intensive IEC activities
- * Enhancing capacity building and programme management

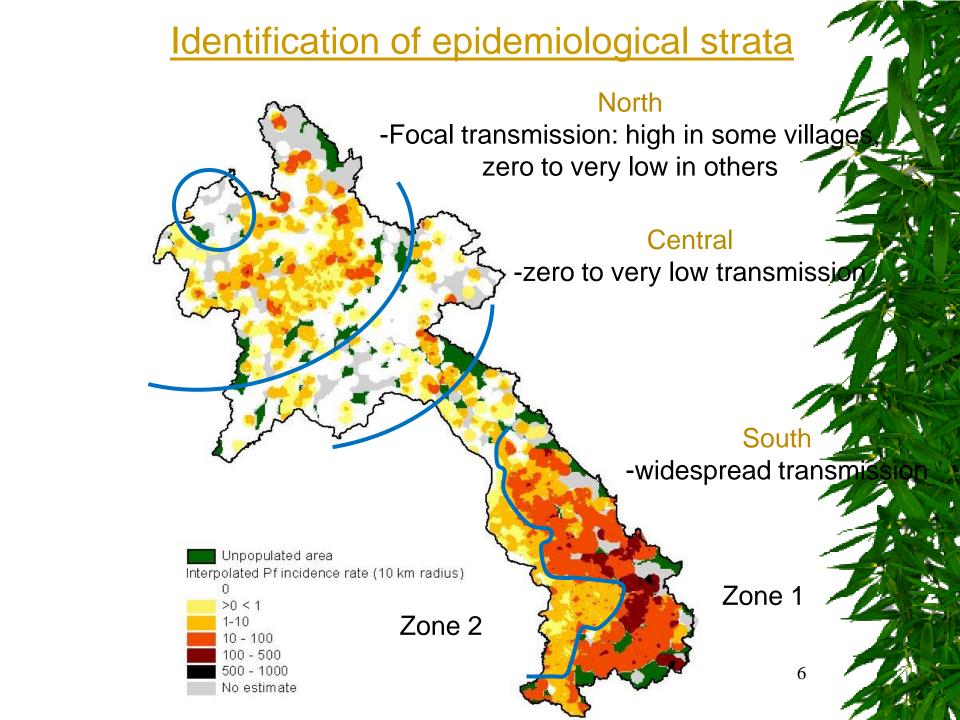
Progressive scale up of interventions – diagnosis and treatment



Incidence rate of confirmed malaria and mortality rate of probable and confirmed malaria in the Lao People's Democratic Republic, 2000-2008







ACI /1000	Strata	No. of villages
0-0.1	Strata 1	3,861
0.1-10	Strata 2	694
>10	Strata 3	649
Unknown incidence		621
		5,825

Malaria risk strata - Number of villages, districts and summary populations by

	Strata 1 villages	Strata 2 villages	Strata 3 villages	Unknown risk	TOTAL village
VTC	60	2	0	1	63
PSL	220	6	5	159	1 390
LNT	269	3	0	22	294
ODX	282	30	2	14	328
ВК	175	5	1	57	238
LPB	526	80	24	0	630
НР	343	5	1	116	46
XYL	263	8	1	14	286
XK	336	5	1	4	346
VTP	135	11	0	118	264
BLX	238	3	1	5	247
KM	175	38	28	49	290
SVK	288	174	176	28	666
SRV	148	104	147	0	399
SK	75	17	83	31	206
CPS	305	167	71	1	-544
ATP	23	36	108	2	169
stricts	131	86	57	58	4
lages	3,861	694	649	621	5,825
population	1,691,844	239,788	408,161	240,236	2,580,029

Where we are now...

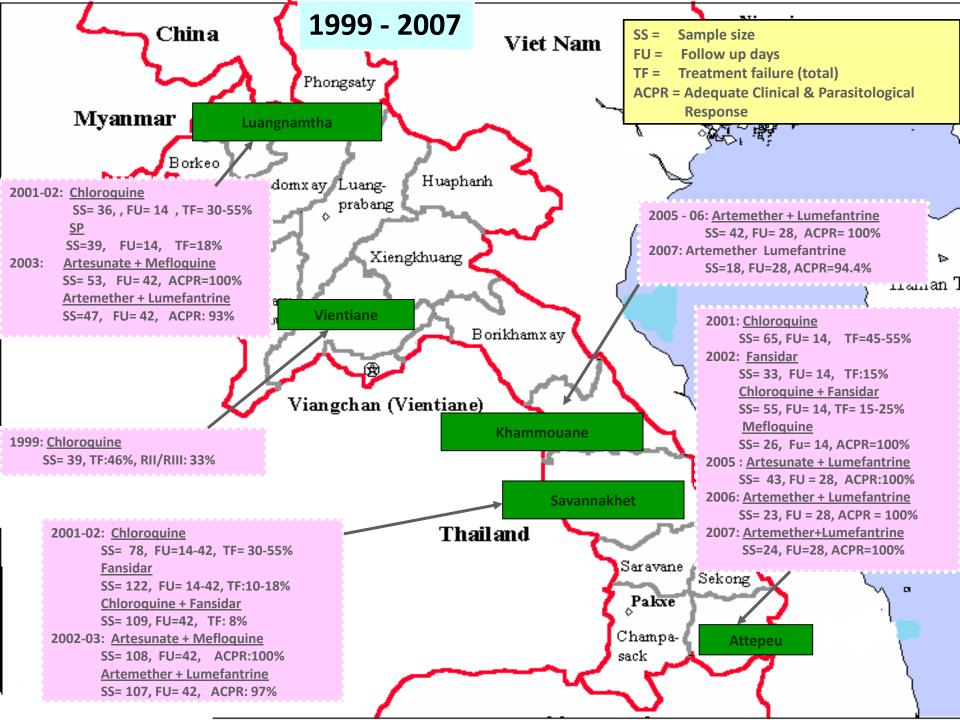
- 1.NMCP upported mainly by GFATM since 2003
- GF R1 (2003-2008): 12 mil USD,
 - R4 (2005-2010): 14 mil USD,
- R7: (2008-2013): 24 mil USD
- 2. A stratification exercise is completed, population at classified into 3 strata with specific interventions.
- 3. A National Strategic Plan 2011 2015 for malaria con and elimination based on GMP principles and WHO WR Regional Strategic Plan 2010-2015 has recently been developed and endorsed by MoH
- 4. A Phase 2 continuation of R7 (2010-2013) is planned with NSP elements

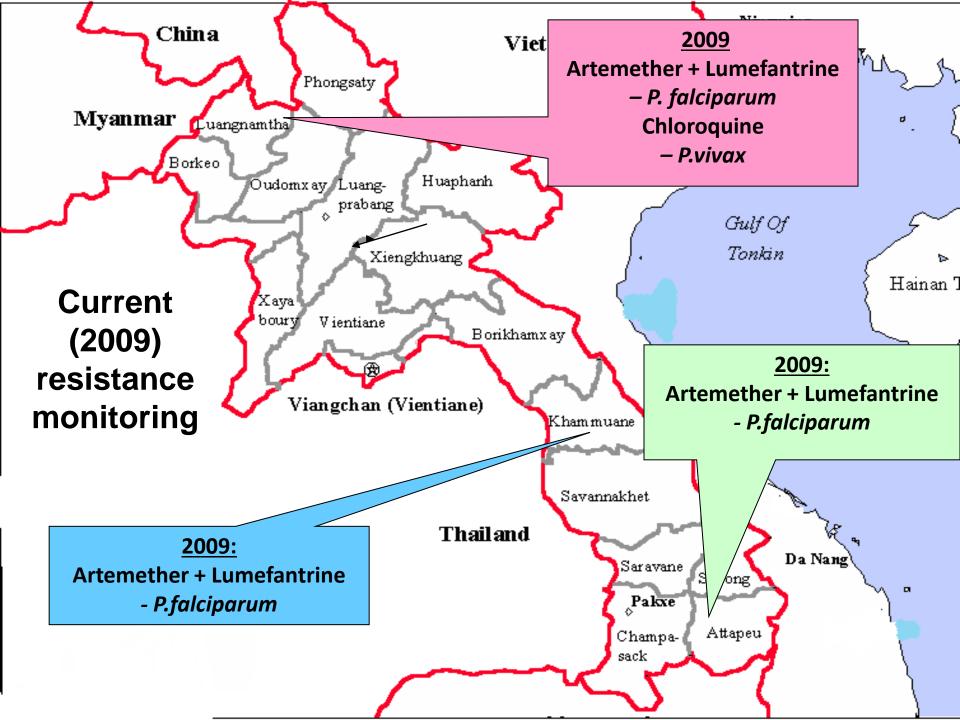
8 objectives of the NSP 2011-2015

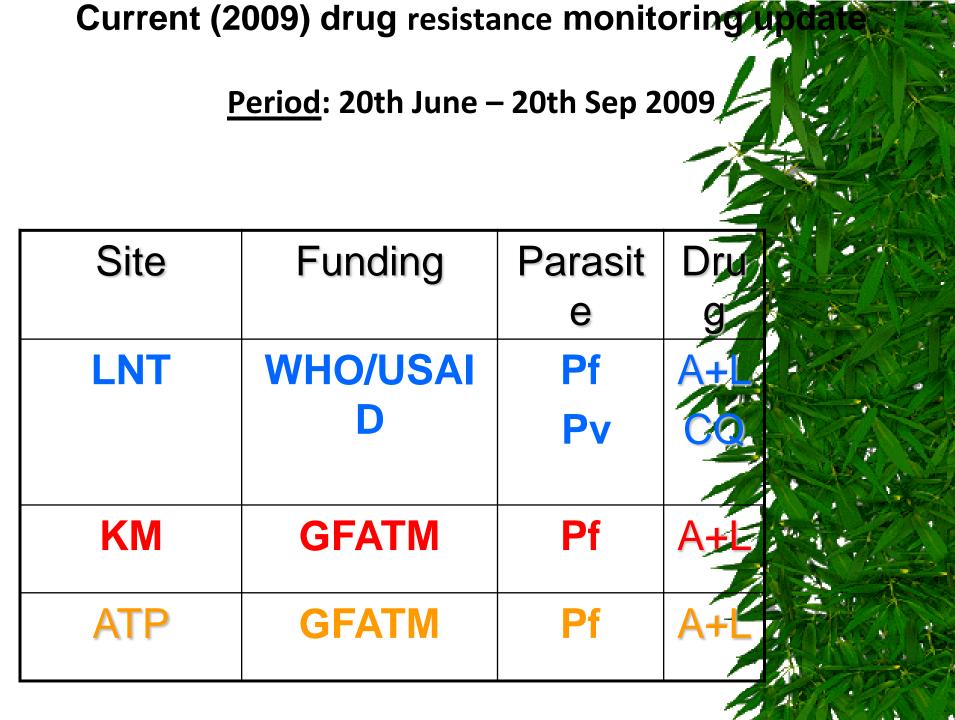
- 1. Strengthening programme management
- 2. Maximize access to effective <u>vector control and personal protection</u> measures.
- 3. Improve access to early, effective diagnosis for malaria.
- 4. Support routine malaria <u>case management</u> at community level in Stratum 3 villages and in selected private sector health facilities
- 5. Strengthen routine Malaria Information System
- 6. Maintain malaria epidemic preparedness and response capabilities:
- 7. Progressively roll out malaria elimination in selected provinces
- 8. Maximize utilization of malaria services through IEC/BCC and strengthen community mobilization efforts especially in elimination provinces

Status of resistance against anti-malarial drugs











- Children < 1 year difficulty to take a drug
- Number of malaria case in hospital very town
- Delayed in implementation
- Early/late onset of raining season
- Numbers of sample size not enough:
 - Parasite density very low
 - Period of study is short
 - How to evaluate of the study
 - More training to Improve knowledge and experience for in-vivo monitoring at provincing district and health center staff

Lessons learnt

- Methodology and sample size not appropriate with declining trend of malaria and limited duration of monitoring
- Provincial and district staff in KM and ATP sentinel sites show improved knowledge and experience in in-vivo monitoring. More training and monitoring needed in LNT site.
- Human resources at sites limited and other activities apart from TES also take priority for provincial/district staff and microscopists
- Currently too labour intensive for one site (ie, LNT) to perform 'active' case detection to achieve sample size
- Further refresher trainings needed for microscopy

Status of insecticide / resistance



- Baselines from MALVECAsia project
 2003 no insecticide resistance in Laos
- Laos has carried out bioassay test on LLN at IMR, Malaysia 2007
- Regular monitoring of insecticide to be strengthened (TA needed)

Public Private Mix in malaria diagnosis and treatment

Province	District	private clinics	Private pharm
Louangnamtha	Namtha	3	17
Savannakhet	Phine Phalanxay Sepone	3 0 0	7 5 7
Champassack	Mounlapamok Paksong	0 1	12 21
Attopeu	Saysettha Samakhixay	0 3	4 12
Total	8	10	85

PPM training in EDAT



PPM in Laos



PPM- Future direction

- A 1 year pilot evaluation with TA from WHO showed very favourable results for continuity
- * A future scale up to more provinces and districts is currently underway
- Objectives are to both improve access and quality of service provision of confirmed diagnosis and treatment with ACTs
- * Target sites are based on consultation with FDA on hot spots of counterfeit/substandard drug prevalence.

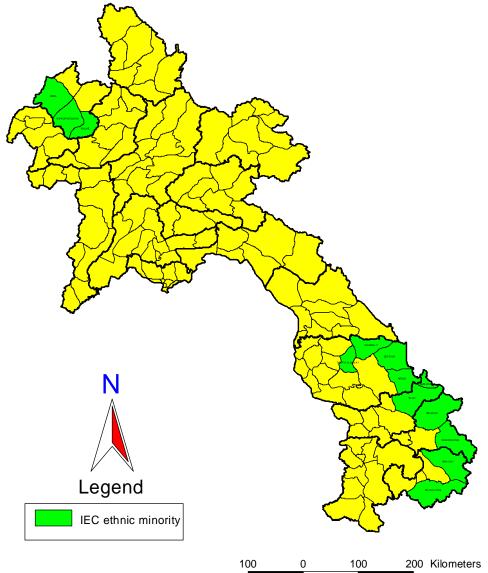
Ethnic Minorities Malaria Control Programme

			/
	CMPE	HU	PEDA
Target ethnic groups	Phuthai, Khmu	Phuthai,Khmu,Brau, Talieng,Alak,Yea,Katu, Ngea	Aka,Kui,Phuthai,Ko,Tr Makong
Project areas	Phin: 25 villages	Taoi: SRV-11 villages	Long:LNT-10 villages
	Vilaboury:30 villages	Samouai: SRV-11 villages	Nalae:LNT-10villages
		Dakchung: SK-19 villages	Viengphoukha:LNT- 10villages
		Kalum:SK-12 villages	Nong:SVK-20villages
		Phouvong:ATP-5 villages	Sepone:SVK-20villages
		Sanxay:ATP-12 villages	
Strategies	Community-based malaria control and preventio	Village-based approach	Peed-education approach
	R.phetsouvanh malaria s	ituation undate 2009	

R.phetsouvanh malaria situation update 2009



IEC ethnic minority project in 5 provinces for Round 7







Achievements

- Initiation of PPM in 4 provinces of Laos (3 South and 1 North)
- Re-stratification of Malaria endemic areas with NIMPE, Vietnam and other TA
- Set up sentinel sites for malaria in 3 provinces (central, North and South)
- National bed net survey completed
- Scaling up malaria control for EMG from 1 province to 5.
- Field quality assurance of RDT with Pasteur, Cambodia
- National strategic plan 2011-2015 developed

Achievements (Cont')

- Set up QA on microscopy at 3 regional sites: North, Central and South
- Combat anti-malarial fake and substandard drug under collaboration with FDD
- Initialize motivation mechanism for VHV in working for malaria.
- Improve MIS and LIS at village, HC level, district and province level.



Follow up of ACT-Malaria trainees from 2008-09

* MMFO(2009): 2 pax

* PPM(2008): 3 pax

* Insect. Resist.

monitoring(2009): 2 pax

* Operational Res.: 1 pax

* QA microscopy: 12 pax/6 exper

