









Eco-Friendly Intensification and Climate resilient Agricultural Systems (EFICAS) project

Community-based Agricultural Development Plans (CADPs) assessment 2015 - 2017

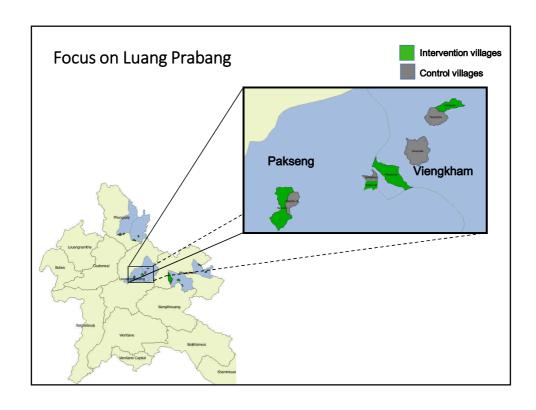


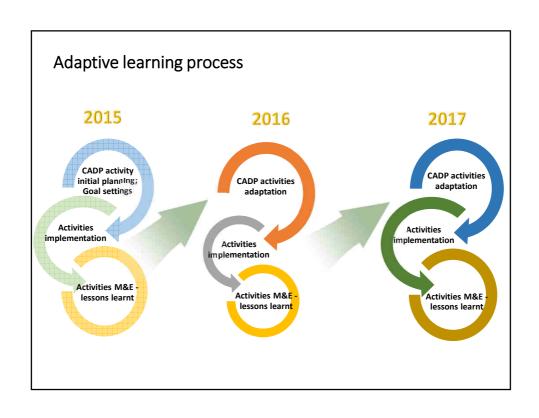


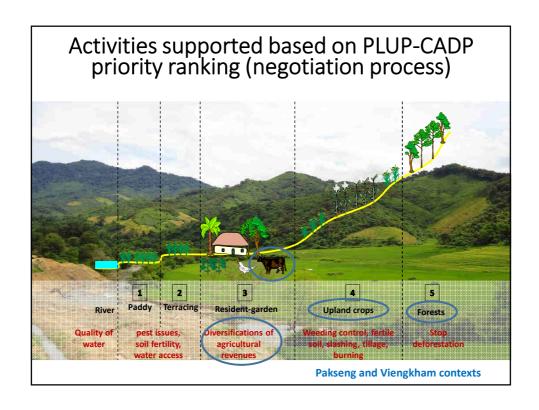


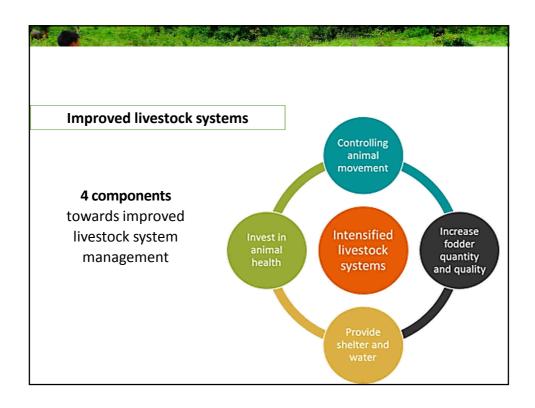
Outline

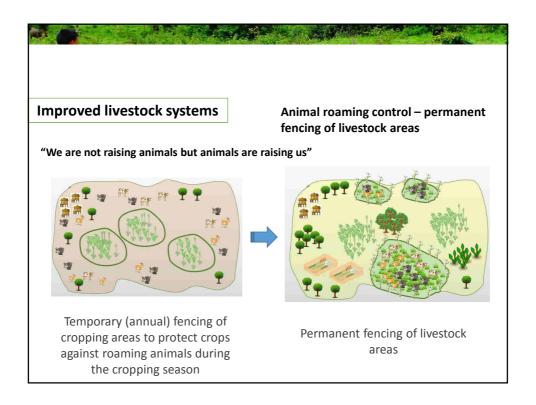
- Main CADP activities supported
- Partnerships engaged
- Support to capacity building
- Take home messages

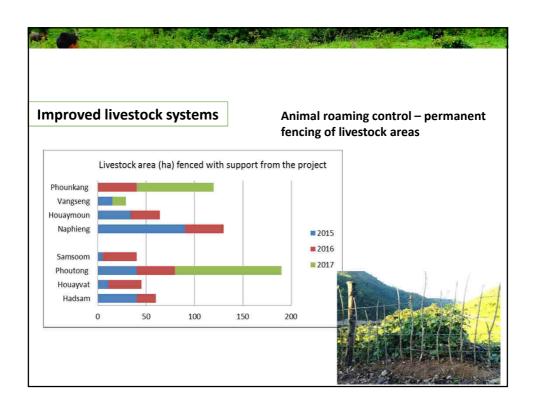


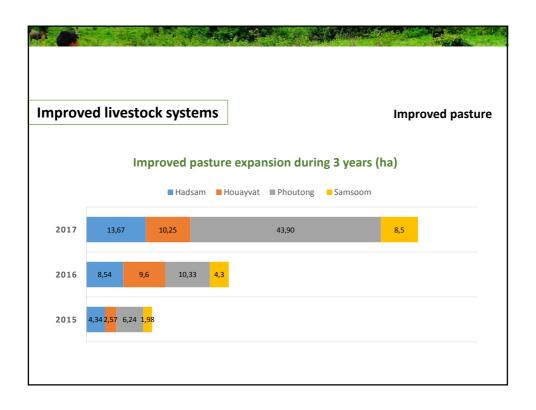


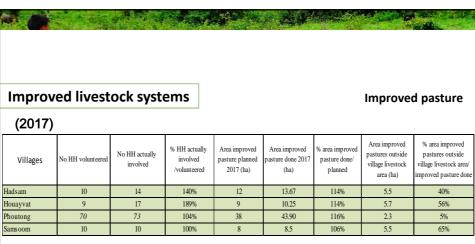






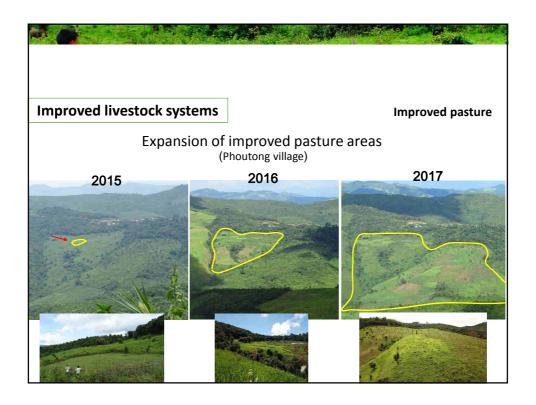


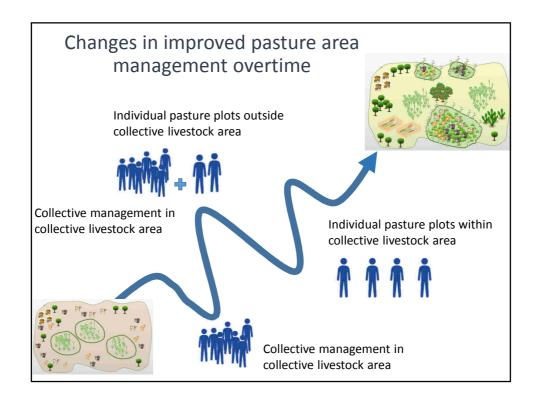




Observations:

- Huayvat: Goat raising activity at Huay Hin Khao area were moved to Huay Houng area due to goats lost (stealing...)
- Phoutong: Improved pasture has been increasing due to high livestock stocking rates
- Samsoum: Improved pasture at Huay Thongdee area difficult to maintain due to imperata grass pressure and farmers preference for individual management
- Hadsam: Collective pasture area was split into individual plots for improved management





Improved livestock systems Improved animal health Sensitization and training of Village veterinary workers (VVW) Equipment and animal health revolving fund Monthly support from DAFO staffs (veterinary) Money remaining in revolving funds in 2017

1,150,000

1,175,000

1,159,000

1,519,000

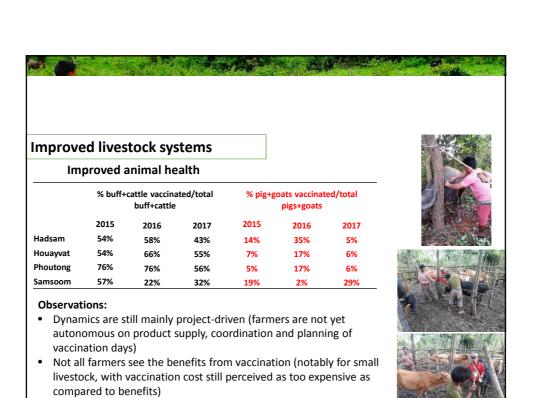
There is a lack of leadership from village veterinary workers

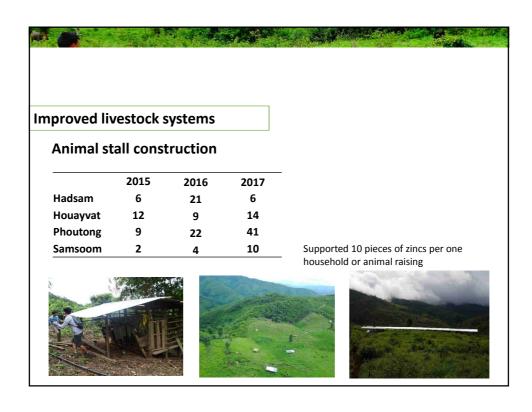
Hadsam

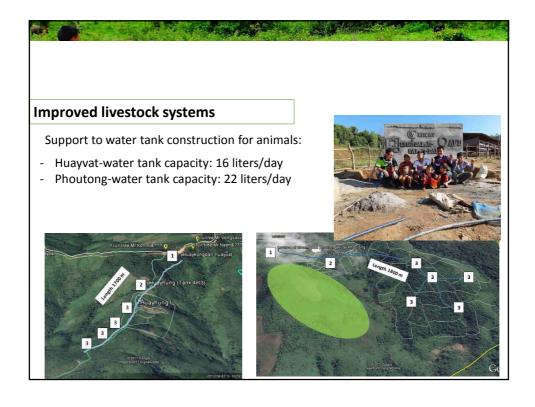
Houayvat

Phoutong

Samsoom







Improved livestock systems

Animal funding

Animal fund for poor households who had no livestock (2016)

9 MLAK (8 million LAK/8 HHs at Phoutong village, at Huayvat village 1 MLAK/1 HH) Credit for 1,5 years than beneficiary HH has to pass it on to other household





Improved livestock systems

Animal funding

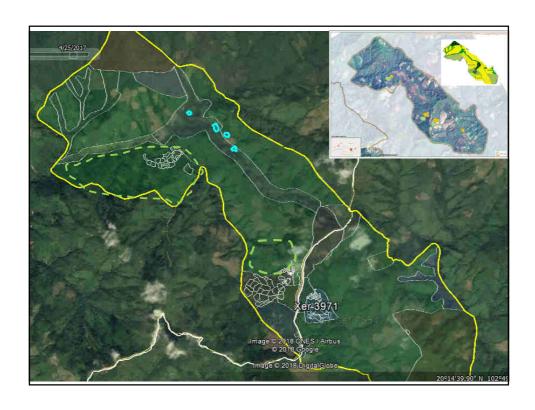
Supported fattening cattle fund 12.5 MLAK (4 heads of cattle for Huayvat and 2 heads of cattle for Hadsam)

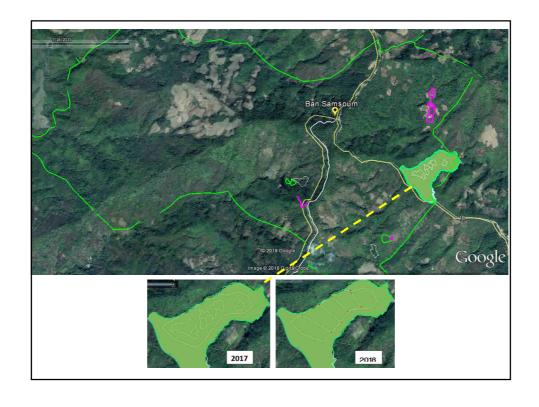










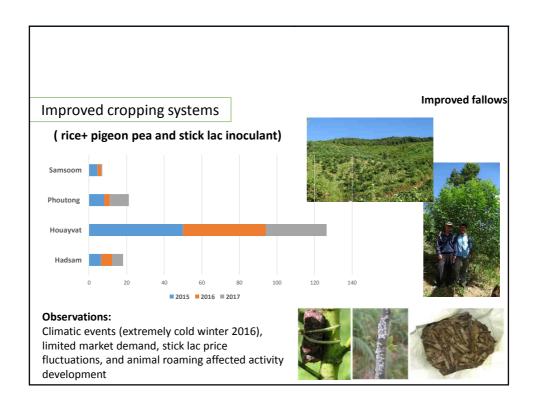


Factors affecting decision-making in livestock management practices

- 1. Local/district policies (e.g. forage plot needed to get access to livestock support funds, district policy regarding livestock area set-up)
- 2. Strength of village land management committee and social cohesion level
- 3. Traditional land use systems and risk aversion
- 4. Livestock pressure/roaming between villages
- 5. External supports (project, government, traders....)
- 6. Aspiration for changes in lifestyle (alternatives to maize)
- 7. Market opportunities (livestock, cash crops)

IMPROVED CROPPING SYSTEMS





	2015	2016	2017
Hadsam	25	14	25
Houayvat	38	34	24
Phoutong	54	62	43
Samsoom	13	16	13

Important market demand (> 2,000T/year)

Main constraints identified for soybean development:

- Agronomic: need for the screening of longer-cycle varieties (currently only short-cycles) and/or increased delayed sowing with cover crop to be established before soybean
- **Value chain**: seeds inoculation with **rhizobium** is needed to insure good soybean production
- Seeds conservation was highlighted by farmers as key constraint for legume crop development

Soybean as cash crop







Vegetable gardens

Water tanks not only to benefit to livestock systems but also for vegetable gardening:

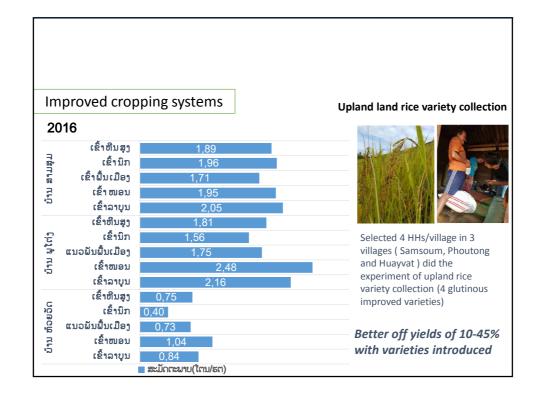
- Huayvat village 4000 m2, 25 HHs
- Phoutong village: 1000 m2, 34 HHs











		ฝๆผษฯธถ๊ฯ	ฤഷาสมาย พ	ฝๆผ!มีแบด	ฝ่ๆผ!ศารศีร
	ษสร	2.95	2.4	2.6	3.00
ต์สีเท	តាគុណ	2.2	165	2.2	2.13
16	2 کو	2.1	2	2.55	2.07
	ฦซ์ศอผอุร ซี	2.8	2.1	2.1	2.73
	ษสร	2.35	2.15	2.45	2.27
ตัสโรเสคีด	តាគុណ	1.9	18	2.25	187
9	ر 'و	2.2	195	2.4	2.27
'	ภชาศอผอุร ช	2.65	2.6	2.65	2.73
20	ษสร	1.6	1.6	1.75	193
400	តាគុណ	2.1	2	2.25	2.33
ត៌អាដ	2 کو	195	2.05	2.4	2.27
-	ภุชทศอผอุร ช	2	175	2.1	2.07
	ษสร	1.5	165	1.45	153
ดีสิกาฝืผ	តាគុណ	2.25	2.3	2.9	2.33
9	2 کو	2.25	2.3	2.6	2.27
	ภ ชา ศอผอุร ช	1.8	165	2.45	193
	ษสร	165	2.85	2	153
돯	តាផុល	1.9	2.9	2.7	180
ô#b	۶ ٦	2.2	2.95	2.85	2.33
	ฦชาศอผอุร ช	185	2.85	2.4	2.00

Upland land and lowland rice variety collection



- > Farmers at Huayvat and Phoutong much preferred to Khao Non than other varieties.
- Farmers at Samsoum and Hadsam liked Khao Nok much better

Improved cropping systems

Upland land rice variety collection

Village ບ້ານ	No HH actually involved	Kg of improved upland rice varieties sown	Kg of improved upland rice varieties harvested
Hadsam	2	40	2,400
Houayvat	5	80	4,840
Phoutong	17	390	16,430
Samsoom	4	32	345

Good dissemination of Khao Non rice variety, notably in Phoutong village







Paddy land registration

- Land registration as a key factor to facilitate farmers' engagement into soil fertility sustainable management
- Within mandate of DALaM/MAF

Paddy land registration done for 10 HHs (3 ha) in Hadsam village



Agroforestry and forest preservation

Many households interested in planting medicinal Cardamom Guangtdong varieties because of:

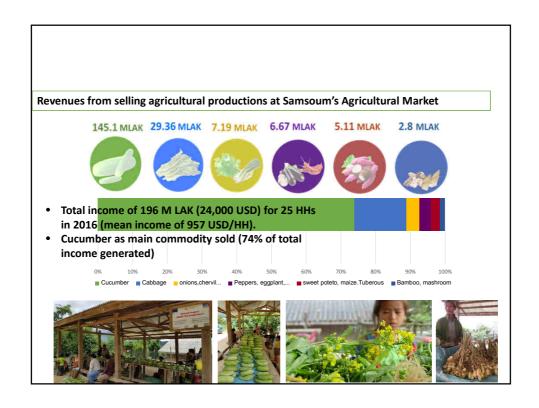
- High price (up to 420,000 LAK/dry kg in PGY)
- High demand (under-supply of chinese market demand)

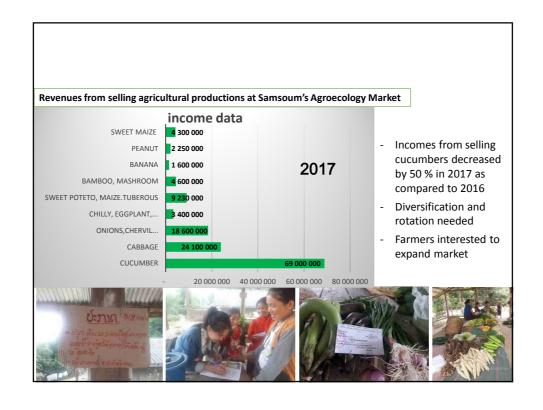
54 households engaged in 2017 in the multiplication and testing of Cardamom Guangdong (8,000 seedlings brought from Phongsaly)

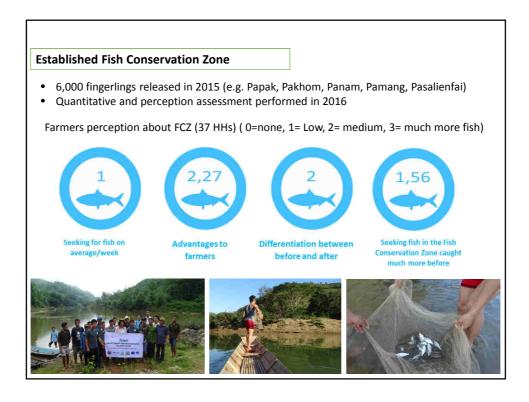
Planting Cardarmom







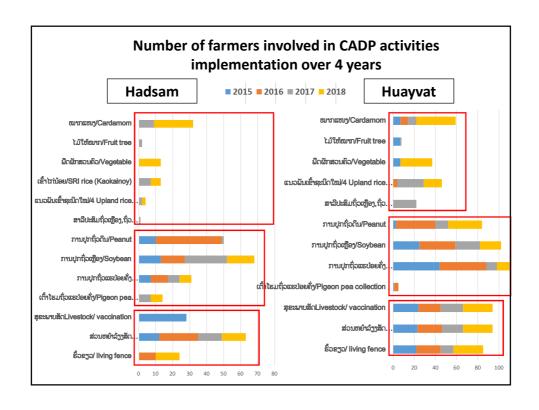


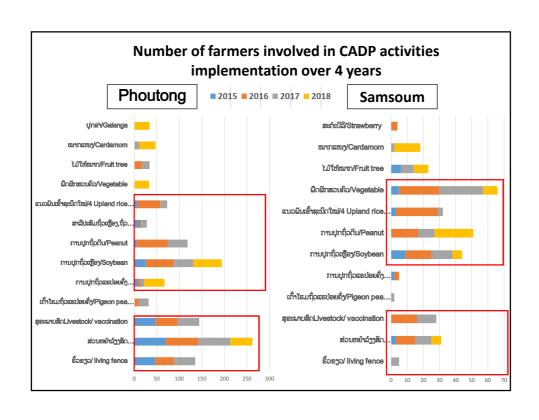


Model households as an alternative to Farmer Field Schools

Farmer-to-farmer exchanges 2 times/year on model HH farm







PARTNERSHIPS ENGAGED

Meuangmuay technical service center

- Collection and demonstration
- Collection and maintenance of 53 species/crop cultivars
- Demonstration intercropping system maize
 + rice bean (mean maize yield 4,2 t/ha)
- Service provision to target villages
- > 3,000 seedlings of Quangtoung Cardamom
- > 3,000 seedlings for living fences
- ➤ 4 trucks of nepia grass
- Grass seeds (Mullato, paspalum)
- TSC involvement still challenging
- Project-driven activities
- > Limited financial efficiency





PARTNERSHIPS ENGAGED

Private sector, NGOs, and other GoL initiatives

- Agroforex (Stick lac), XP trading (soybean)
- ❖ Lao Women Union: legume integration into traditional diet (cooking classes)
- Agrisud: organic vegetable production, courses on Agroecology









Producers capacity building (vocational training)

2015+2016

Topic	Animal health	Village veterinary workers	Forage technology	Improved fallow management	Study tour (Forage,cattle fattening)	soybean cooking classes
Hadsam	49	3	29	27	6	35
Houayvat	33	3	29	35	6	30
Phoutong	36	3	50	48	8	35
Samsoom	24	3	13	17	4	25
Tot No farmers	142	12	121	127	24	125





Producers capacity building (vocational training)

2017

Topic	Study tour (Agroforesty in phongsaly)	Soybean production training	Bio-insecticide	Sillage	Improve forage (sowing+process ing)
Hadsam	5	15	15	10	18
Houayvat	5	24	18	12	12
Phoutong	5	27	54	49	49
Samsoom	5	15	20	45	45
Tot No farmers	20	81	107	116	124







CAPACITY BUILDING

Samsoom high school

- Study tour for 50 students and 15 teachers in Meuangmuay TSC
- Support to vegetable dry season crops and compost making
- Support to cattle fattening





Building capacity for GoL staffs (thematic training)

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Торіс	No of staffs	No of hours	Comments	Period
PLUP-PALM	9	35	5 district staffs Co-organized	Feb 2015
CADP	5	80	On-the-job training involving 5 staffs during 10 days in target villages	Jan to March 2015
Livelihood and vulnerabilty to CC assessment	5	80	On-the-job training involving 5 during 10 days in target villages	Jan to July 2015
Soil quality assessment	5	56	On-the-job training involving 5 staffs during 7 days in target villages	April to July 2015
Msc thesis	3	400	At Fac of Nabong during WE (Chanthasone)	Jan to Dec 2015
Training agroecology	2	35	In MM TSC, Viengkham district, organized by Agrisud	14-18 March
Arc GIS 10.4 training	16	56	16 participantes (3DALaM staff, 4PALaM staff, 3MALaM staff-Pakseng, 5MALaM staff-Viengkham with 2 AGISUD staff, 1 NUDP/SARI)	17-24 June 2017
Q GIS	2	40	2 viengkham staff has been trained on QGIS, organized by AGRISUD	
Short video making	6	16	5 staff trained on short film making	12-13 Feb 2018

Conclusions regarding CADP objectives and implementation

- Good participation of village communities to the planning (> 85% participation to village meetings) and implementation process (>70% of HHs involved in CADP activities implementation)
- Good percentage of activities completion (80 to 110%)
- Critical mass is about reached for improved livestock activities; critical mass is still an issue for other activities (e.g. diversification with legume crops)
- Many outputs and outcomes (e.g. livestock management)
 but still limited impacts (livelihood, landscape)
- Need more time (5-10 years) and continuous support to turn these outputs/outcomes into impacts

Take home messages (1)

- Participatory land use planning, innovative agroecology practices and value chain approach need to be combined into a common framework
 - Diversity as a basic principle for action (agrobiodiversity, maintain landscape mosaics)
 - Lowland paddy expansion and intensification to be considered as a major pathway towards poverty eradication and shifting cultivation stabilization
 - An integrated approach is needed towards improved livestock systems (animal control roaming, improved animal health, improved access to shelters and water, improved fodder systems)
 - Agroforest sytems should be promoted in the uplands; current opportunities with domesticated NTFPs (Cardamom spp, rattan, galangar etc.), tea and coffee

Take home messages (2)

- A strong investment in extension agents capacity building to support changes in intervention methods
 - o Pointing **knowledge gaps** and creating space for action-research
 - o **Participatory simulations** for exploring possible options with village communities
 - Change posture from lessons givers to facilitator in multi-stakeholder negotiations

