

Province	District	Village Implemented
Houaphan	Houamuang	Houaymoun
	Viengkay	Naphiang
		Phoukang
Luang Prabang	Pakseng	Vangxaeng
	Viengkham	Houayvat
		Phoutong
Phongsaly	Mai	Samsoum
	Samphan	Phia
		Phialouang

EFICAS project

cirad

European Union

afc

## Improving performance and diversity of upland cropping systems in northern Laos

NUDP-EFICAS Annual Workshop, Phonsavan, Xieng Khouang Province, 8 December 2015

### Outline: Challenges of development-oriented research in the uplands of northern Laos

- Understanding the diversity of agricultural production systems
- Keeping track of rapid changes in landscapes and livelihoods
- Assessing options for sustainable agricultural development

 **Eco-Friendly Intensification and  
Climate resilient Agricultural Systems**

## Diversity of production systems

Location		Uplands agriculture				Lowland agriculture		Large livestock	
Province	Villages	Fallow length	Cultivation patterns	Labor force	Crop associations	Paddy cycles	Vegetable cycles	Management types	Damages management
Houaphan	Houaphan								
	Houaphan								
	Houaphan								
	Houaphan								
	Houaphan								
	Houaphan								
	Houaphan								
	Houaphan								
Phongsavaly	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
	Phongsavaly								
Louang Phrabang	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								
	Louang Phrabang								

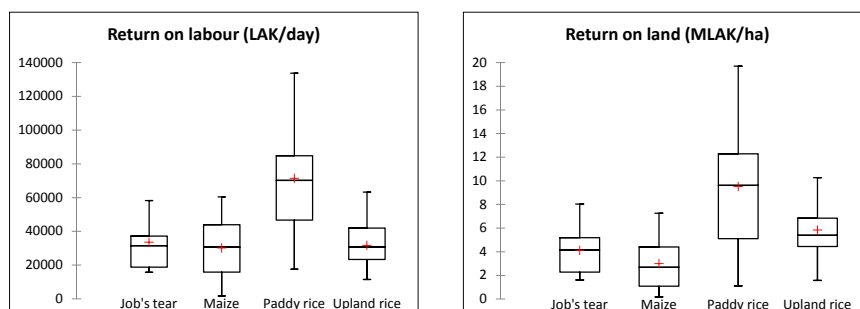
Fallow length	Cultivation patterns	Labor force	Crop associations	Paddy cycles	Vegetable cycles	Management types	Damages management
A=1-2yrs	A=1-3 groups	family labor	A=1crop	0 paddy	0 cycle	free-roaming	fenced crops
B=3-5 yrs	B= 4-6 groups	mutual help	B=2crops	1 cycle	1 cycle	tended	fenced livestock
C=6-9 yrs	C=7-9 groups	hired labor	C=3-5crops	2 cycles	2 cycles	livestock area	
D=10 yrs	D=10 groups		D=6crops	3 cycles	3 cycles	grass cultivation	

## Baseline data collection on main cropping systems

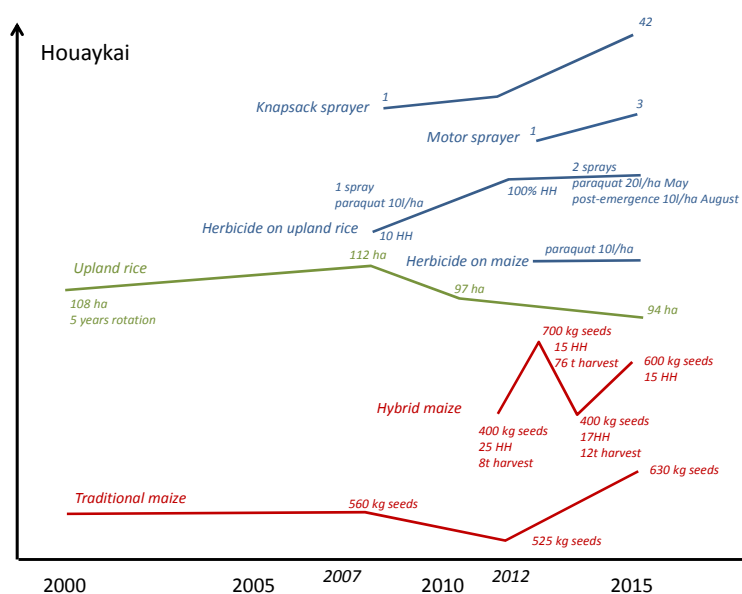
ໃຫ້ເຈົ້າຂອງໄຮ່ບອກເນື້ອທີ່ໄຮ່ຂອງເຂົາເຈົ້າຊື່ຈັກ(ກ່ອນລົງມືບັດແທກດິນຈົງ) ເຮັດຕາ  
ບັດແທກດິນເຄື່ອງມື ໓໑໑ ບອກວ່າມີຈັກ.....ເຮັດຕາ

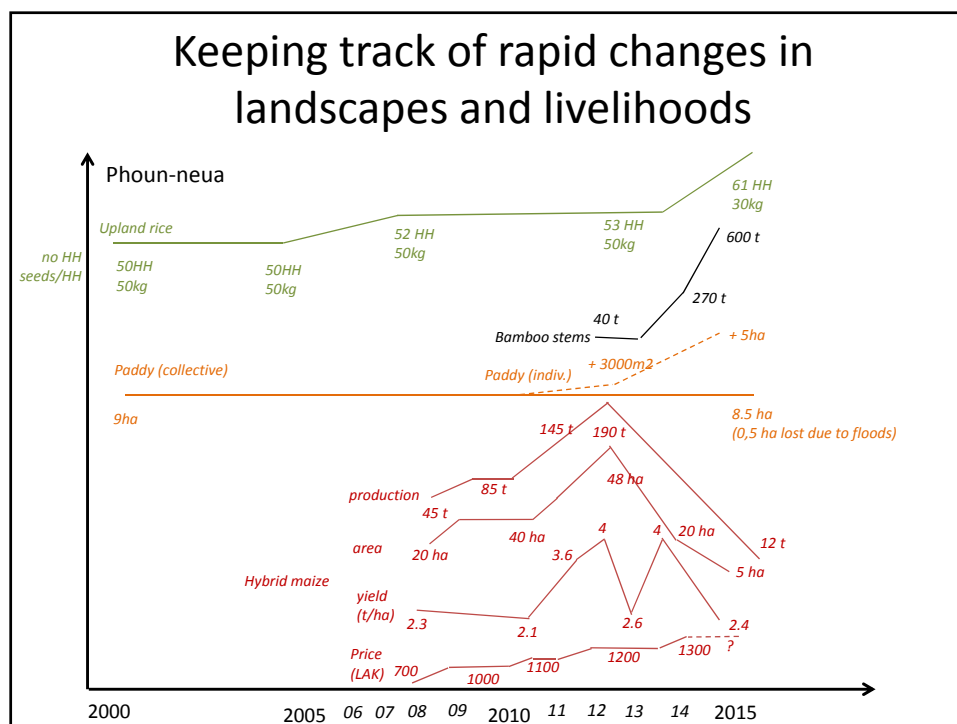
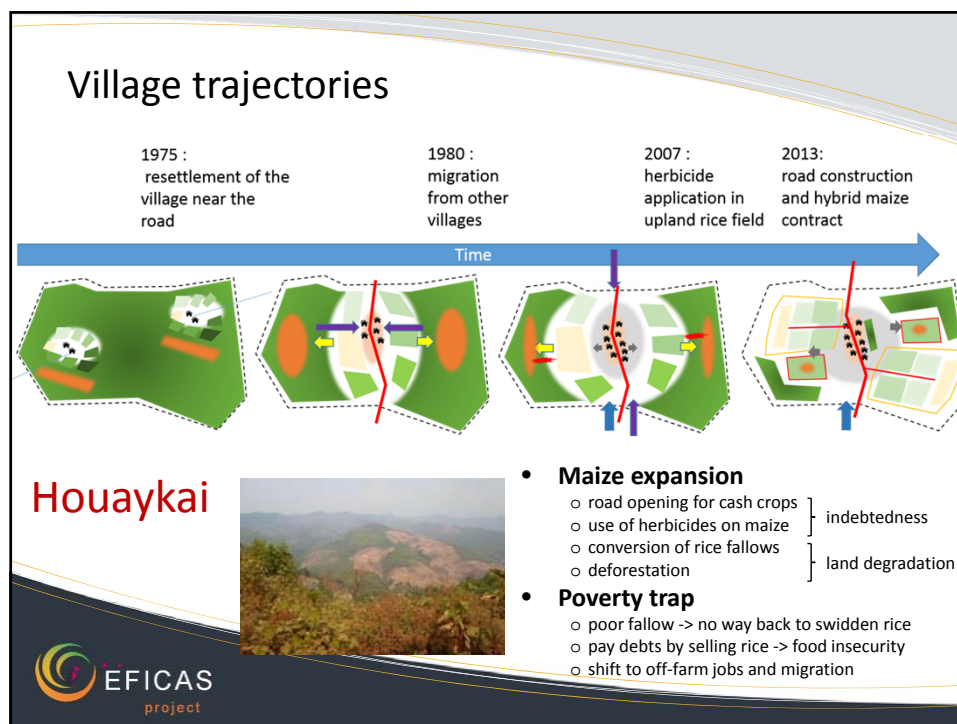
ຜູ້ຜະລິດ	ເກັບກຳ				ຂາຍ
ຊື່	ບຸກຈັກ ກວດ	ເກັບກຳໄດ້ ຈັກເປົ້າ	ເປົ້າໜ້າໜັກ ຈັກກວດ	ເກັບກຳໜັກ ໜັດໄດ້ ຈັກກວດ	ປະລິມານພືດດັ່ງກ່າວນີ້ ຂາຍປະລິມານຈັກກວດ
ຊື່ພືດ 1					
ຊື່ພືດ 2					
ກົດຈະກຳໃນການເຮັດໄຮ່	ກົດຈະກຳໃຊ້ ເວລາຈັກວັນ?	ວັນໜຶ່ງຈັກຄົນ?	ຈົນແຮງງານທັງ ໝົດຈັກຄົນ	ຄ່າເຫນຕາງ	
ຖາງ					
ຊຸດ					
ເກັບປຸງທີ່ຈຸດປ່ີໄໝ້					
ເຮັດຮົ່ວ					
ການກະກຽມດິນ(ພວນດິນ; ຄາດ)					
ກໍ່ແນວພັນ ຫວານກ້າ					
ບຸກການຍ້າຍບຸກ					
ເສຍຫຼາຍດ້ວຍມື/ສິດຢາຂ້າຫຼາຍ					
ໃສ່ປຸ້ຍ					
ເກັບກຳ					
ຊົນຊັງ					
ອື່ນໆ..					

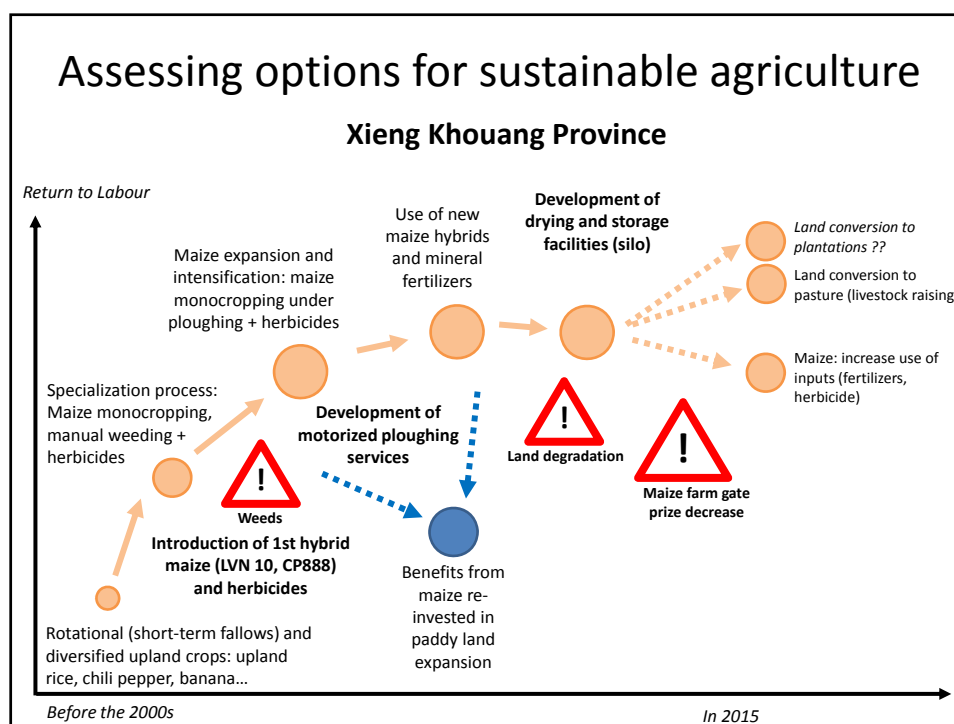
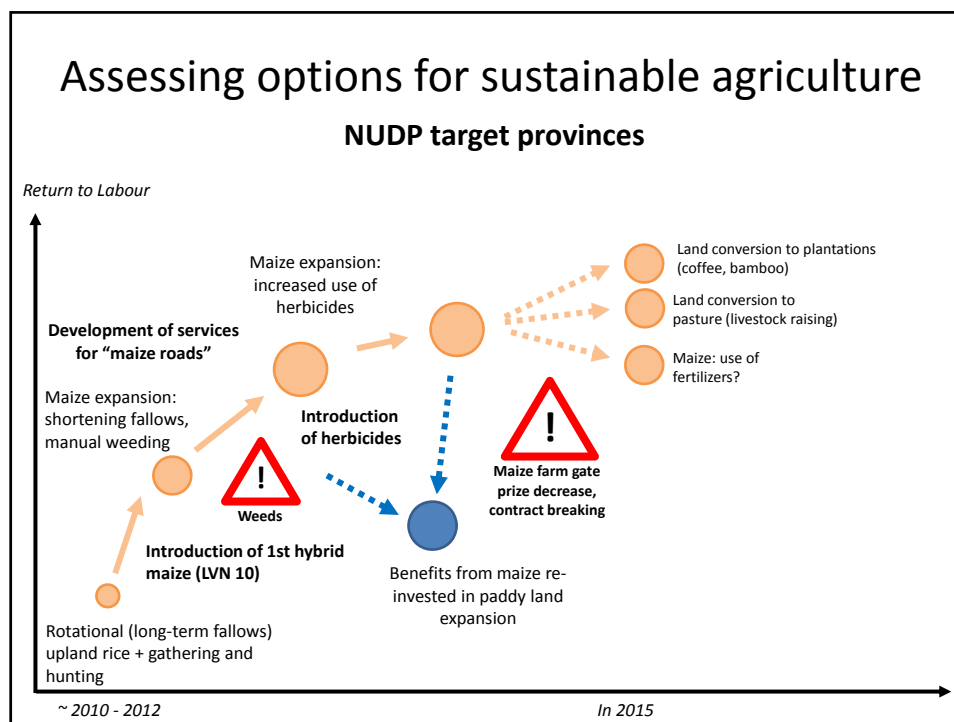
## Cropping system performances



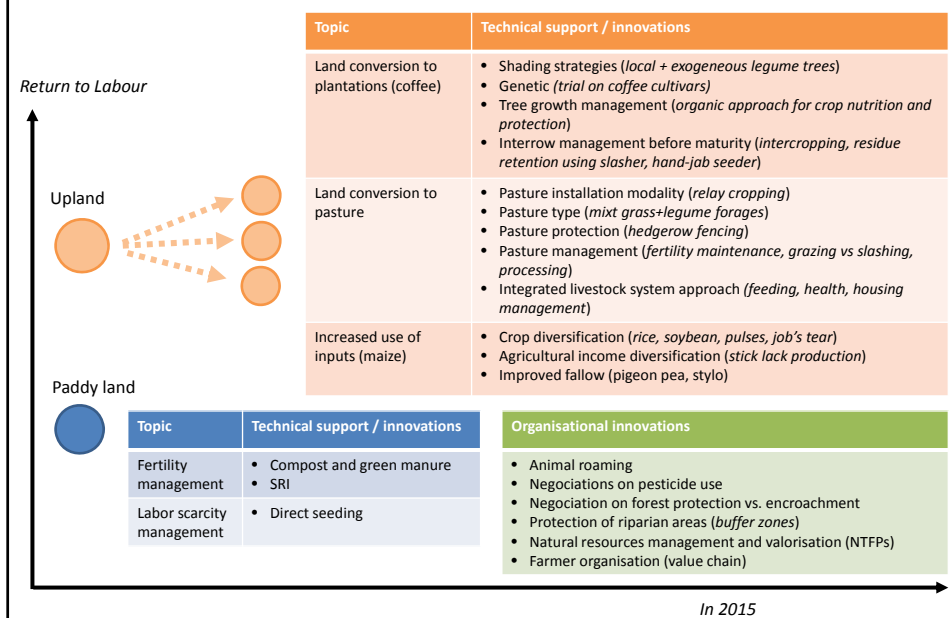
## Keeping track of rapid changes in landscapes and livelihoods







## Opportunities for intervention



Thank you for your attention...

