DURAS Documentation workshop, Vietnam 16-19 January, 2008

Crop/Livestock project

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NB this project group worked together before and also work on other projects together now.

Table 1. Setting project boundaries

Title	Area/location	Stakeholders	Starting date and duration	Objectives	Strategy/ approach	Components
Local knowledge	Mountainous	Lao:	2 years but need	(1) Guidebook for	1. With the	1. V: Fodder
for animal	areas of Lao and	* NAFRI (report to	to continue.	farmers per country,	Farmers:	development
husbandry	Vietnam	MAF).		guidelines to apply	-Spontaneous	(trop, temp), L:
integration in SE		* Northern	Impossible to let	innovative	innovative based	improved fallow
Asian Mountains		Agricultural	alone the	technologies	on interaction	(paper mulberry),
		Research Centre.	farmers.	(2) Improve the link	with farmers.	integrated
		* Village		(interaction loop)	-Meetings	cropping system
		committees (3). *		between	between Farmers,	(leguminous
		Farmers (49).		stakeholders	Local ext. and	crops).
		* IRD.		(3) Scientific	Scientists.	, .
		* Provincial		knowledge	-PA (as	2. Soil erosion
		Agriculture Office.		improvement on	Experimentation,	control and water
		* District		agronomic aspects,	FFS, Interview	management
		agriculture office.		adapted forage,	(opened),	processes.
		Vietnam:		erosion processes on	Questionnaire	
		* National Animal		sloping lands,	(closed)).	3. Fertilizer
		Husbandry		fertility	NB: before the	management.
		Institute, Vietnam		management.	project, some PRA	
		(NIAH).		(4) Social/socio-eco	actions.	4. Social
		* IRD, CIRAD.		survey on local		approach.
		* Soil Fertility		knowledge.	2. Link with	
		Research Institute		(5) Scientific papers.	policy-makers:	5. Booklet
		(SFI) reports to			-Follow the Land	publication.
		MARD.		From farmers (from	Planning,	
		* TX people's		Mr Bon,	-Submit the main	
		committee (4)		extensionist, and Mr	conclusion	

Title	Area/location	Stakeholders	Starting date	Objectives	Strategy/	Components
Title	Area/location	* Farmers union. * Six communes (300 farmers). * Decision makers. * Extension services.	Starting date and duration	Bao, farmers' union): -Increase the LU coefficient, means get one more crop season (grass example)Support cattle development -More training course In Laos (Oloth's	approach (achievements in relation with the Land Planning) -Interview on their personal point of view 3. Scientific loop: - Meetings (4/year/country) -Quarterly reports	Components
				perception): -improve fallow management for	-Informal talking (the most important	
				goats production -Stable upland rice yieldsMore training	because not too much consuming of time)	
				course.		

Table 1a. Project context

Context / Problems	Previous activities
Erosion control	Monitoring from 2000
Low crop yield	From the 90's on uplands
Low farmer knowledge on sustainable agricultural development	
Lack of fodder over the year	
Increase number of ruminants	

Table 2. **Description.**

Components	Activities	Main Achievements	Difficulties faced	Unexpected results
C1. Fodder	C1Experimental	C1a. Exptl plots: -Selection of	C1Local climatic and	Positive:
development,	plots- on-farm, scaling	adapted forage species	soil conditions	Forage – increase in
improved fallow,	up.	(temperate and tropical), -	-Misunderstanding	area covered outside
integrated	-Training, FFS.	Selection of leguminous and	scientists/farmers	the pilot
cropping system	-Results and discussion	non-leg (pigeon pea and	-Too short duration.	communes/farmers.
(leguminous	exchange with farmers.	paper mulberry), -Farmers'	-Conflict Crop/Animal	
crops).		adoption.	management (first point	Number of farmers
	C2Experimental plots	C1b. Training: Farmer's	underlined by Bon&Bao).	involved inside
C2. Soil erosion	(1 and 5 m ²)	knowledge improved.	-Access to farmers	commune increased
control and water	-Chemical and	C1c. Discussion&Results:	difficult due to lack of	very fast – but
management.	hydrological analysis	Better understanding of each	free time.	difficulties with supply
	and monitoring.	other.	-Rapid change of land	of inputs.
C3. Fertilizer		C2a + b. Exptl plot + Chem	owners.	
management.	C3Demonstration	Analysis: -Hydrological and		Biogas and
	site.	erosion processesDecide on	C2 and C4Local	vermicompost
C4. Social	-Training (FFS).	erosion control speciesC	conditions (e.g. rainfall	development.
approach	-Results, discussion,	and N balance and ecology	pattern, soil quality).	
	scaling up.	and fertility management.	-Limited time to interact	Jatropha in Lao as
C5. Booklet	-Experimental plots.	Papers published.	with agronomist	innovation.
publication.		C3a,b,c. Demonstration site:	colleagues.	
	C4. Interview,	farmer adoption, scaling up,	-Access to database and	
	questionnaire,	capacity building, improve	local information.	Negative:
	mapping analysis.	farmer knowledge in fertilizer	-Limited availability of	Less hectares of forage
		management. Also field visit	farmers	planted that expected –
	C5Collect	and student training.		farmer
	information with the	C3d. Exptl plot: Increase crop	C3Access to farmers	agreement/engagement
	scientists.	yield.	knowledge.	or reality different.
	-Writing process with	C4a. Interview: Description of	-Project duration too	

Components	Activities	Main Achievements	Difficulties faced	Unexpected results
	farmer colleagues and	driving force.	short.	Drought.
	NARS.	C4b. Questionnaire:	-Limited availability of	
	-Editing.	Description/report on	farmers.	Farmer's decisions and
		farmers' decision and land use	-Farmers change strategy	strategy were changing.
		mapping. Changes in income	without letting others	
		documented.	know.	Experimental plot
		C4c. Mapping: GIS analysis of		destroyed, equipment
		environmental control and	And :	lost (difficulties for
		markets driving force. Land	-Equipment stolen, data	scientist because loss of
		use map, LUC map.	lost, difficulties for	data and farmers
			farmers to manage so	embarrassed with the
		Reporting:	may foreigners.	police).
		-Quarterly report,	-Language difficulties.	
		- Scientific papers,	-Duration of project too	
		- Seminars,	short to publish and	
		- Documentary film (25	disseminate results inside	
		minutes).	the project time.	
		Capacity building:	Also little time to	
		- For farmers and involved	exchange results within	
		stakeholders,	different groups and	
		- Field visit for external	moreover between the 2	
		visitors,	countries, implication to	
		- Students training.	make guidebook.	

Criteria 1. Participation

Indicators	Positive aspects	Negative aspects	Unknown aspects
Number of farmers and area	Motivation.	Time consuming.	Incoherence between surface
involved (ratio with the initial	More information.	Fund consuming.	planned and reality
values)	More data.		
Kind and number of	To measure involvement of	Time constraints.	
stakeholders involved	policy makers.		
	External support.		
Frequency of inter stakeholder	Clarify & Spread issues.	Poor understanding if not	
interaction.	Sharing experiences.	frequent enough.	
	Better understanding.		
Number/ frequency of	Good communication.	Time consuming	
meetings, reports, common	Data available, enough info for		
field visit	everyone.		
Number of farmers per	If good participation, content	Farmers were selected, so	
meetings	of meeting is relevant, adapted	some might be excluded etc	
	to the farmers requirement.	Incentives (lunch or cash) used	
	Farmers enjoy and feel the	to get farmers to meeting (in	
	subject useful for them.	Vietnam). In Lao, govt does not	
		allow this.	
Quality of farmers interaction/	Good achievement.	Some farmers might be shy	Presence of foreigners.
participation	Unknown aspect.	and not join in. Some might	<u>-</u>
		find it boring.	
		-	

Criteria 2. Knowledge Management

Indicators	Positive aspects	Negative aspects	Unknown aspects
Number of peer review papers	Credibility for project and	Time consuming	
published	work. Share knowledge.		
	Institutional support.		
Number of meetings and field	Sharing information at	Can be too much info, new	
visits with farmers, scientists	different levels.	info, boring or too intensive	
and policy makers	Practical info.	visits, farmers tired.	
Number of inter country	Sharing info.	Time consuming.	
meetings	Facilitate understanding and	Funds consuming.	
	learning.		
Number of integrated reports	As above.	Time consuming.	

Criteria 3. Capacity building

Indicators	Positive aspects	Negative aspects	Unknown aspects
Number of farmers attending	Appropriate technology.	Too much time for farmers to	
trainings	Easy to understand trainings.	take.	
	Quality of trainings.		
	Probably better adoption by		
	farmers.		
Number of students and	Dissemination.	Time consuming for scientists	
fellowships obtained/	Scientific interest.	to have students etc.	
involved	Long term contact –farmers	Students/foreigners who live in	
	happy to work with foreigners.	villages may change farmer's	
		native behaviour.	
Better practices	Farmers adopted. Appropriate	Labour intensive.	
	technology.	Complicated.	
	Easy to understand trainings.	Expensive.	
	Quality of trainings.		

Criteria 4. Institutionalization.

Indicators	Positive aspects	Negative aspects	Unknown aspects
Integration in other projects	New ideas. More information.	Limited time to work with	
	More contacts especially in	other projects.	
	minorities area.	Discussion not as deep as we	
	Helps to address farmers'	would like.	
	problems.		
Integration in institutional	Appropriate methods.	Many institutions participate in	
activity	Interesting techniques.	one project.	
	Similar subject areas.	Funding often little.	
	Sharing ideas.		
Spin-offs:	Promotes integration of	Funding	Generates new project ideas.
-biogas	systems eg next step – biogas		
-human health control	from animal waste. Better use		
-bio fuel (jatropha)	of waste improves human		
-private company involvement	health etc.		
	Relevant ideas.		

Criteria 5. Economic efficiency.

Indicators	Positive aspects	Negative aspects	Unknown aspects
Number of animals	More grass resources. Other	Not enough land.	
	'nutritive grasses' used now.	Grass quality not good.	
	Increased trade/	Not enough money to	
	commercialization.	investment.	
Crop yield	Appropriate fertilizer	Climatic impact.	
	management.		
Erosion rate.	Appropriate agricultural		
	techniques.		
Income change.	More animals, good results of	If no interest, don't continue,	
	project.	no adoption and not adapted.	
	Better crop yields, better mgt	Money needed to invest.	
	etc.		
	Results adopted/adapted.		
CSO	Commercialization.	Speculation, market prices not	
involvement/entrepreneurial		fixed when starting up.	
		Not fair.	

Criteria 6. Replicability.

Indicators	Positive aspects	Negative aspects	Unknown aspects
Number of neighbour	Appropriate technology.	Lack of interest.	
communes	Easy/simple to transfer.	Not enough involvement of	
		extension services.	
Other projects	Appropriate technology.	Not enough experiences.	
	Easy/simple to transfer.	Not enough communication.	

Criteria 7. Sustainability.

Indicators	Positive aspects	Negative aspects	Unknown aspects
Continuous adoption by Farmers of new technology	Good and appropriate ideas. Appropriate tech in long term. Shows results useful for farmer.	Unknown aspect.	Changes in socio-economic expectations.
Water quality and quantity	Well adapted technology for local environment.	Too many animals. Pollution possible. Poor management.	
Pollution and disease.	Can be used for biogas to a certain level. Alternatives needed and found. New projects.	Not sustainable. Too many animals. Bad management – too much success.	

Recommendations:

Target	Result
Farmers	Economic benefit
Extension services and local leaders	New technology appropriated and guidebook disseminated
Policy makers	In L and V, need key points only, new technology, achievements.
Ministry involved	Well adapted, well adopted. Sustainability.
Research institutions	New technology. New peer-reviewed papers. Better knowledge.
Scientific community	New way of interaction between farmers and NARIs and
	research institutes.
DURAS coordination	In right direction to achieve objective.
	Confirm DURAS strategy.
	Short time to achieve objectives.
Institution for development (eg CGIAR, GFAR)	New approach is appropriate.

This workshop has helped to make concrete what sort of reports etc we need to prepare for different people. Many ideas were there but now have more or less same ideas about conclusions for each target.

Why? (behind the results)

- 1. Decided to do this project because we are already involved with farmers and want follow farmer knowledge.
- 2. Multidisciplinary group, and have confidence in each other.
- 3. "New way" is very important for the group is that try to make link between science, development and economic action altogether integrated at the same time in parallel. Scaling out not important as they follow farmers' ideas objective is not to diffuse but follow farmers.

Key ideas:

- 1. The teams engaged in CropLivestock project were already involved before the project: good thing!
- 2. Multidisciplinary groups allow to follow the farmers based on their local knowledge and to link science with development.