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de Louvain



Minority Organisation for Development of Economy - MODE

Food and Economic Security and Improvement of Environment and Livelihoods (FESIEL) Project.

From Individual to Collective Self-Support on Sustainable Agricultural Practices

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ACADEMIC & in SOLIDARITY

Outline

- FESIEL Project:
 - Intervention Areas
 - Beneficiaries
 - Project location
- Individual Training & Follow-up Methods
 - Sustainable Agriculture (SA) Farmers
 - Model Farmers
- Collective Training & Follow-up Approach
 - Self-Help Group (SHG)
 - Emergence of Agricultural Cooperatives (AC)
- Research collaboration first results

FESIEL Project - Intervention Areas

- Food and Economic Security (Result1)
- Economy and Access to Market (Result2)
- Income Generating Activities (Result 3)
- Environment Protection and Awareness (Result 4)
- Institutional strengthening of MODE organization on management and technical skills and financial sustainability (Result 5)







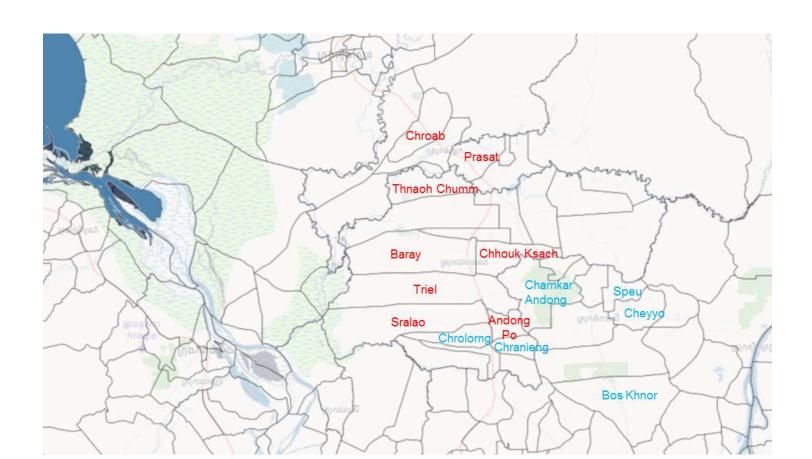
FESIEL Project - Beneficiaries

- Selection Process:
 - Community Meeting
 - Individual Interview with farmers
 - Check with village chiefs and key village informants
- Beneficiary categories:
 - Women headed households/Widows
 - Poor families
 - People with disability
 - Vulnerable Families
 - People affected by diabetes, high blood pressure or other non-communicable diseases
 - Families with people living with mental problems



FESIEL Project - Project Location

- Previous projects (2011-16): 8 communes in Kampong Thom
- 5 years program (2017-21): extend to 6 more communes
 (2 in Kampong Thom & 4 in Kampong Cham)



Individual Support - SA farmers

- Sustainable Agriculture (SA)Training
 - 8 days training spread over 2-3 weeks on



- > Composting techniques;
- > IPM & Natural pesticides production & use
- > Water management;
- > Seed selection & conservation
- > Crop rotation & species diversification
- > Integrated farming practices
- Using video showing, pictures, flip charts, field visits and practices
- Follow-ups by Field Facilitators
 - Monthly Informal follow-up
 - 3 times formal follow up (every 3-4 month)
 - Interview & Observations
 - Information collected in forms





Individual Support - Model Farmers

Training of Trainers (TOT):

- Model Farmers selected among SA farmers based on performance, commitment and willingness to share experience
- 1 full day training on how to prepare lesson plan and facilitation skills
- using short technical videos, the use of flipcharts and reference documents produced
 - using role play technique

Follow up Methods:

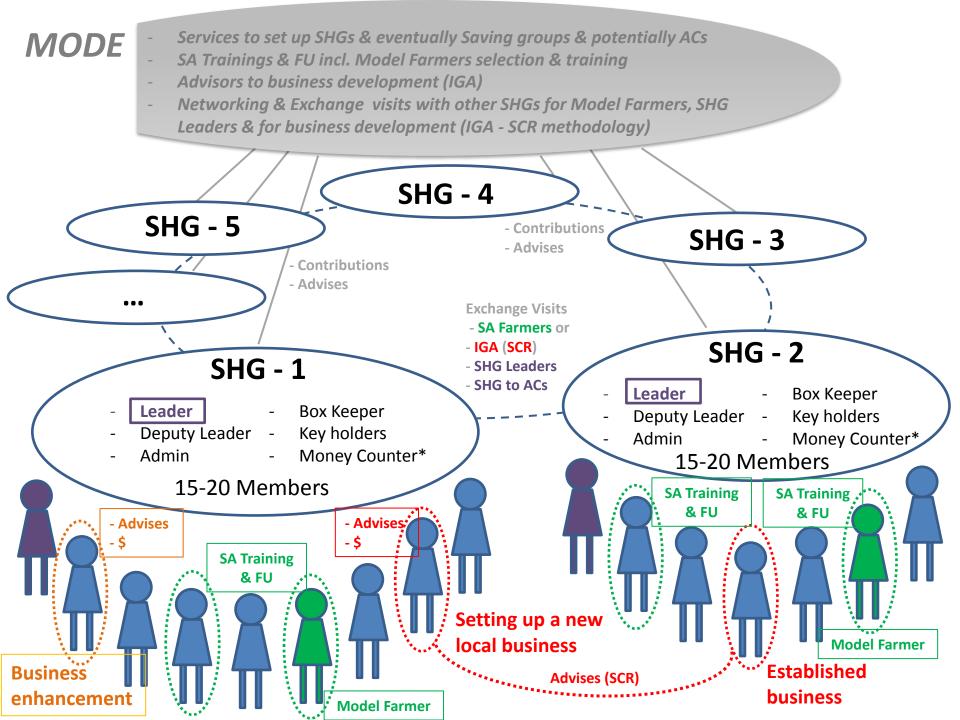
- Monthly informal follow-up
- at least 5 times of formal follow up (every 3 month)
- agricultural technique & how to disseminate the knowledge and experience of model farmers.

Collective Support - Overview

- Setting up of Self-Help Group (SHG) & Saving Groups
- SHG capacity building & follow up
- Networking and Exchange visits (internal & external):
 - SHG leaders
 - SA farmers & Model farmers
 - Income Generating Activities (IGA) using Success Case Replication (SCR) methodology







Collective Support - Self-Help & Saving Groups

- SHG Leaders training on group management, conflict resolution, book keeping, marketing, group members selection.
- <u>Tools</u>: Good practices videos and pictures group regulations and management guide
- Exchange visits within SHG network





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Collective Support - Agric. Coop. Emergence

- SHG (with at least 15 members) who expressed their interest and have high commitment to become AC.
- Collaborate with Federation of Farmer Associations promoting Family Agriculture Entreprise (FAEC) to conduct information sessions, additional trainings
- <u>Tools</u>: Videos & documents
- Internal & External exchange visits to existing AC with the support of MODE and FAEC





Research Collaboration: First Results

Multidimensional benefits of smallholder farmers' good practices

A case study in Kampong Thom, Cambodia

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Research Collaboration: First Results

- Problematic identification:

 Agriculture sustainability of smallholder farmers in Kampong Thom
- Methodology selection based on literature review: SAFA (FAO, 2013) Framework of Agric. Sustainability
 - 1) Env. Integrity, 2) Social Wellbeing,
 - 3) Good governance, 4) Econ. Resilience
- 80 out of 105 indicators selected based on their local relevance
- Questionnaire design, reviewing and testing
- Communes and villages selection
- 100 interviewed farmers

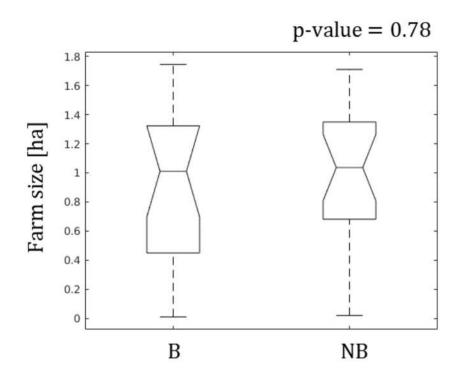


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First Results: Comparable Groups (1/3)

Comparable groups (beneficiaries & control group):

- Farm size
- Family structure
- Access to natural resources (water)
- Access to facilities (main roads)

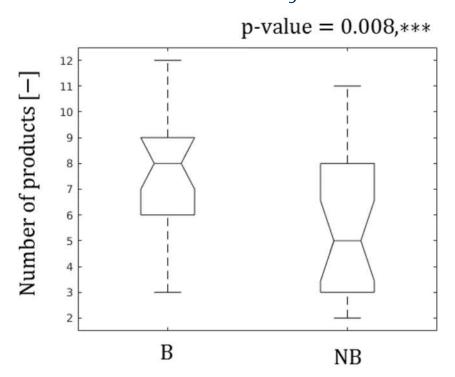




First Results: Significant Differences (2/3)

Higher total number of products among beneficiaries (graph)

- >> Increased production diversity thanks sustainable agriculture practices trained & kits provided
- Higher number of produced vegetables
- More diverse animal husbandry



Higher risk's Assessment & Mitigation (3/3)

		В		NB			p-	cianificanco
	Mean	Min	Max	Mean	Min	Max	value	significance
Farm size [ha]	1.05	0.05	1.75	1.1	0.09	1.7	0.78	
Family size	4.9	1	9	5	1	8	0.6	
Number of products	7.9	3	12	5.3	2	11	0.008	***
Number of detected risks	9.55	1	20	6.9	0	12	0.043	*
Number of produced vegetables	3.18	0	6	1.16	0	5	2.10 ⁻⁶	***
Number of animal species	2.7	0	6	1.2	0	3	10-3	***
Number of taken risk mitigation measures	5.1	0	11	2.6	0	6	0.006	***
Number of planned risk mitigation measures	2.5	0	5	0.4	0	2	10-4	***

- >> SA Farmers higher # risks identified: soil & water quality, water ress. availability, climate changes (Env. Pillar) & lack of agric. knowledge.
- >> SA Farmers higher # risk mitigation measures planned & already taken

Research Collaboration: Next Steps

Conference	Date	Location	Status
Agricultures, ruralities and development	22-24/05/2017	Brussels	Accepted
6th French Network for Asian Studies International Conference	26-28/06/2017	Paris	Accepted
19th Organic World Congress	09-11/11/2017	New-Delhi	Abstract accepted

- Abstracts Submission
- To complete database with remaining questionnaires
- To run additional statistical analyses on complete database
- Paper writing and presentation of final results (peer-reviewed process)
- Script writing & video shooting of key elements from research results by private film company
- Share and communicate using the produced video

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Thank you for your attention



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