



Irrigated rice production in San Nicholas, Ilocos Norte (Ronald A. Angat, Department of Agriculture-Regional Field Office III)

Palayamanan: Climate Change Adaptation Strategy for Lowland Ecosystem (Philippines)

Palayamanan

DESCRIPTION

Synergistic mix of farming ventures implemented by the farm family based on the existing environment and their resources to address food security, income instability, and sustainability.

The objectives of the approach are the following: to improve resources allocation; to enhance biodiversity and ecological balance; to reduce production risks; and to increase cropping intensity, productivity, profitability, and economic stability. It also includes continuous food supply and higher income for land users. With Palayamanan, the farm is not just intended for rice. It is about food security, livelihood and empowering farmers to become better decision makers and resilient to climate change. It also aims to develop land users to become farmer-researchers, extension workers and entrepreneurs.

Methods: Participatory approach with the stakeholders/land users.

Implementation comprised the following stages: (1) Selection of the demonstration sites an farmer-partners; (2) Conduct participatory rapid appraisal on the sites; (3) Planning; (4) Conduct of training for the farmers (Farmers Field School) and for the Agricultural Extension Workers; (5) Establishment of the demonstration farm; (6) Monitoring and Evaluation; and (7) Human Resource Development for Farmers (to become farmer-researcher, extension worker, entrepreneur)

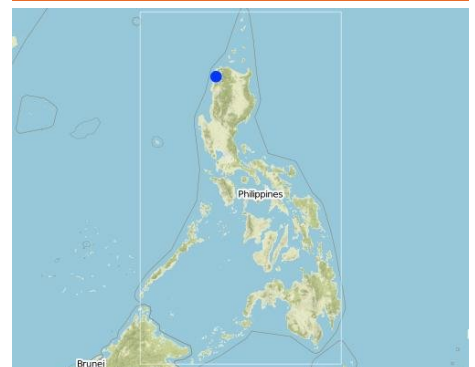
Stakeholders: A. Philippine Rice Research Institute (PhilRice): take the lead in the implementation of the program; facilitate the conduct of training; provide technical assistance to the program; and monitor the progress of the program.

B. Local Government Unit (Agriculture Office): provide support to the activities of the program; spearhead the dissemination and expansion of the program within their concerned municipality.

C. Farmer: participate in various activities of the program from planning to establishment; conduct on-site researches.

The approach introduced a systematized method of farm management involving technologies and practices to utilize available resources without compromising human health and environment. Some of the technologies incorporated under this approach are the following: crop rotation, aquaculture, waste recycling, diversified cropping, alternate wetting and drying, nutrient management, and integrated pest management.

LIEU



Lieu: San Nicolas, Dingras, Currimao, Ilocos Norte, Philippines

Géo-référence des sites sélectionnés

• 120.5929, 18.16012

Date de démarrage: 2001

Année de fin de l'Approche: 2009

Type d'Approche

- ☐ traditionnel/ autochtone
- ☐ initiative/ innovation récente locale
- ☒ fondé sur un projet/ programme



Diversified cropping practiced in Dingras, Ilocos Norte (Ronald A. Angat, Department of Agriculture-Regional Field Office III)

OBJECTIFS DE L'APPROCHE ET ENVIRONNEMENT FAVORABLE

Principaux objectifs de l'Approche

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Conditions favorisant la mise en oeuvre de la/(des) Technologie(s) appliquée(s) sous l'Approche

- **Disponibilité/ accès aux ressources et services financiers:** Organized the League of Sangguniang Bayan Chairperson for Agriculture to ensure the source of finance for the expansion areas
- **Cadre institutionnel:** LGUs were involved and invited during training, seminars and other activities related to the Palayamanan during the implementation to gain their support in the sustainability of the program; Organization of farmers association.
- **Connaissances sur la GDT, accès aux supports techniques:** capacity building and training such as conduct of Farmers Field School.

Conditions entravant la mise en oeuvre de la/(des) Technologie(s) appliquée(s) sous l'Approche

PARTICIPATION ET RÔLES DES PARTIES PRENANTES IMPLIQUÉES DANS L'APPROCHE

Parties prenantes impliquées dans l'Approche et rôles

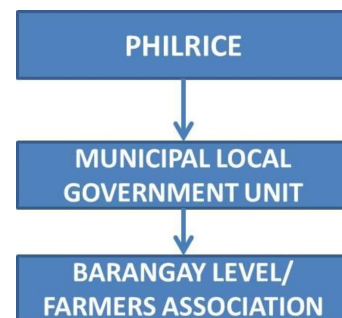
Quels acteurs/ organismes d'exécution ont été impliqués dans l'Approche?	Spécifiez les parties prenantes	Décrivez le rôle des parties prenantes
exploitants locaux des terres / communautés locales		
Spécialistes de la GDT/ conseillers agricoles		
gouvernement local	Local Government Unit	

Participation des exploitants locaux des terres/ communautés locales aux différentes phases de l'Approche

	aucun	passive	soutien extérieur	interactive	auto-mobilisation	
initiation/ motivation		✓				land users were informed about the program through technical briefing/consultation meetings
planification				✓		PhilRice in consultation with the land users and LGUs
mise en œuvre				✓		Land users have the option on what technologies they will implement with the technical assistance of PhilRice
suivi/ évaluation				✓		farm record keeping, testimonial during field day and Palayamanan Congress, land user as correspondent during project monitoring
research				✓		land users developed their own on-site research; they presented the results in a research study paper contest during Palayamanan Congress

Diagramme/ organigramme

PhilRice introduced and implemented the Palayamanan to one barangay per municipality. The concerned Local Government Unit through its Agriculture Office is responsible to radiate and expand the program to other barangays.



Prises de décision pour la sélection de la Technologie de GDT

Les décisions ont été prises par

- ☐ les exploitants des terres seuls (auto-initiative)
- ☒ principalement les exploitants des terres soutenus par des spécialistes de la GDT
- ☐ tous les acteurs concernés dans le cadre d'une approche participative
- ☐ principalement les spécialistes de la GDT, après consultation des exploitants des terres
- ☐ les spécialistes de la GDT seuls
- ☐ les responsables politiques/ dirigeants

Les décisions ont été prises sur la base de

- ☐ l'évaluation de connaissances bien documentées en matière de GDT (prises de décision fondées sur des preuves tangibles)?
- ☐ les résultats de recherches?
- ☐ expériences et opinions personnelles (non documentées)

SOUTIEN TECHNIQUE, RENFORCEMENT DES CAPACITÉS ET GESTION DES CONNAISSANCES

Les activités ou services suivants ont fait partie de l'approche

- ☒ Renforcement des capacités/ formation
- ☒ Service de conseils
- ☒ Renforcement des institutions (développement organisationnel)
- ☒ Suivi et évaluation
- ☒ Recherche

Renforcement des capacités/ formation

La formation a été dispensée aux parties prenantes suivantes

- ☒ exploitants des terres
- ☒ personnels/ conseillers de terrain
- ☒ Agricultural Extension Workers

Formats de la formation

- ☒ sur le tas
- ☒ entre agriculteurs (d'exploitants à exploitants)
- ☒ zones de démonstration
- ☒ réunions publiques
- ☐ cours

Sujets abordés

Farmers Field School (FFS) were conducted to capacitate and inform the land users on various farming technologies (i.e. fertilizer, crop, water, and pest management) and entrepreneurship. Training also incorporated topics on post harvest and farm record keeping. There were also training of trainers (TOT) for farmers on rice production and other crops.

Service de conseils

Le service de conseils était fourni

Advisory through Radio Program, Farmers served as correspondents

- ☐ dans les champs des exploitants?
- ☒ dans des centres permanents

Renforcement des institutions

Institutions ont été renforcées ou mises en place

- ☐ non
- ☐ oui, un peu
- ☒ oui, modérément
- ☐ oui, beaucoup

au niveau suivant

- ☒ local
- ☐ régional
- ☐ national

Décrivez l'institution, ses rôles et responsabilités, ses membres, etc.

The local government was not supportive in the early stage of the program but after witnessing the positive impact in the agricultural sector, they started to finance the establishment of training centers in the barangays. Agricultural technicians from the LGU were active in the sustainability of the program.

Type de soutien

- ☒ financier
- ☒ renforcement des capacités/ formation
- ☒ équipement

Plus de détails

Suivi et évaluation

Recherche

La recherche a traité les sujets suivants

- ☐ sociologie
- ☒ économie/ marketing
- ☒ écologie
- ☒ technologie

Researches were conducted by the Philippine Rice Research Institute (PHILRICE)

FINANCEMENT ET SOUTIEN MATÉRIEL EXTERNE

Budget annuel en dollars US de la composante GDT

- ☐ < 2 000
☒ 2 000-10 000
☐ 10 000-100 000
☐ 100 000-1 000 000
☐ > 1 000 000

PhilRice 50%, LGU 20%, Farmers' association 30%

Precise annual budget: sans objet

Les services ou mesures incitatives suivantes ont été fournis aux exploitants des terres

- ☒ Soutiens financiers/ matériels fournis aux exploitants des terres
☒ Subventions pour des intrants spécifiques
☒ Crédits
☐ Autres incitations ou instruments

Soutiens financiers/ matériels fournis aux exploitants des terres

Subsidies from the government were given in terms of seedlings, training, tools and equipment.

	en partie financé	entièrement financé
équipement: outils	☒	☐
intrants agricoles: semences	☒	☐
intrants agricoles: semences: fertilisants	☒	☐
greenhouse, training center	☐	☒

La main d'oeuvre fournie par les exploitants des terres était

- ☒ volontaire
☐ vivres-contre-travail
☐ payée en espèces
☐ récompensée avec un autre soutien matériel

Crédits

Conditions : Credit was provided in terms of agricultural inputs (seeds and fertilizers) and is paid in cash after harvest. This payment will serve as revolving fund of the farmers association.

Fournisseurs du crédit : sans objet

Destinataires du crédit : Credit receivers are land users covered under the approach.

ANALYSES D'IMPACT ET CONCLUSIONS

Impacts de l'Approche

	Non	Oui, un peu	Oui, modérément	Oui, beaucoup
Est-ce que l'Approche a aidé les exploitants des terres à mettre en œuvre et entretenir les Technologies de GDT? There was a shift in the cropping system from mono cropping to diversified cropping resulted in the improvement soil properties. Through the approach, location specific rice-based farming technologies were developed to address the issue on climate change.	☐	☐	☐	☒
Est-ce que l'Approche a autonomisé les groupes socialement et économiquement défavorisés? Farmers were trained as extension workers to serve as resource speaker in training other farmers within their municipality. Through this, their confidence and self esteem, specially, in dealing with other people were developed. The approach introduced cost-saving and yield-enhancing technologies to optimize the farm operation.	☐	☐	☐	☒
Est-ce que l'Approche a conduit à améliorer la sécurité alimentaire et/ou la nutrition? The approach provided knowledge, as well as, experience to the land users that was eventually applied in improving their farming system to increase their farm production and income. Diversified farming sustain the farmer's food requirement and also generate income from the different crops and animals grown.	☐	☐	☐	☒
Did other land users / projects adopt the Approach? Seventy percent (70%) of the land users within the area adopted the program because of the successful initial program implementation in the locality.	☐	☐	☒	☐

Principale motivation des exploitants des terres pour mettre en oeuvre la GDT

- ☒ augmenter la production
☒ augmenter la rentabilité/ bénéfice, rapport coûts-bénéfices
☐ réduire la dégradation des terres
☐ réduire les risques de catastrophe
☐ réduire la charge de travail
☐ paiements/ subventions
☐ règles et règlements (amendes)/ application
☐ prestige, pression sociale/ cohésion sociale
☐ affiliation à un mouvement/ projet/ groupe/ réseaux
☐ conscience environnementale
☐ coutumes et croyances, morale
☐ améliorer les connaissances et compétences en GDT
☐ améliorer l'esthétique

Durabilité des activités de l'Approche

Les exploitants des terres peuvent-ils poursuivre ce qui a été mis en oeuvre par le biais de l'Approche (sans soutien extérieur) ?

- ☐ non
☒ oui
☐ incertain

The approach would continue without the support from Philippine Rice Research (PhilRice) since the technologies were successfully transferred to the land users. The land users or farmer-partners recognized the positive impact and outcome of the technologies in their own farm areas. Moreover, farmer-partners were actively involved in the dissemination on the developed location-specific technologies.

CONCLUSIONS ET ENSEIGNEMENTS TIRÉS

Points forts: point de vue de l'exploitant des terres

- Farmers' receptiveness to the technologies under the approach.
- Land users were empowered due to the participatory approach of the program. They developed location specific technologies and practices and are confident in disseminating the knowledge to fellow farmers.

Points forts: point de vue du compilateur ou d'une autre personne-ressource clé

- Research studies conducted by the farmers.
- Good monitoring activity during the implementation stage of the program.
- Land users/farmer-partners were empowered since they have the option on what technologies they want to apply/used in their farm.
- Strong cooperation among the implementing partners including PhilRice, LGUs, and farmer-partners in the sustainability of the approach through provision of technical assistance, construction of training centers, subsidy in agricultural inputs and other activities related to Palayamanan.

Faiblesses/ inconvénients/ risques: point de vue de l'exploitant des terres comment surmonter

Faiblesses/ inconvénients/ risques: point de vue du compilateur ou d'une autre personne-ressource clé comment surmonter

- Not fully strong collaboration from other agencies Develop convergence among concerned specialists and agencies
- Sustaining the farmer's participation/attention Selection/Assessment for identifying the potential beneficiaries
- Inability to monitor the sustainability of the project due to no funding Institutionalize who will monitor the sustainability of the project
- No approved budget for the sustainability/exit plan of the program Institutionalize who will monitor the sustainability of the project

RÉFÉRENCES

Compilateur

Philippine Overview of Conservation Approaches and Technologies

Editors

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Personnes-ressources

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Description complète dans la base de données WOCAT

https://qcat.wocat.net/fr/wocat/approaches/view/approaches_1972/

Données de GDT correspondantes

Technologies: Alternate Wetting and Drying https://qcat.wocat.net/fr/wocat/technologies/view/technologies_1725/

La documentation a été facilitée par

Institution

- Department of Agriculture-Region VIII (DA-8) - Philippines

Projet

- Decision Support for Mainstreaming and Scaling out Sustainable Land Management (GEF-FAO / DS-SLM)

Références clés

- PALAYAMANAN: A RICE-BASED FARMING SYSTEMS MODEL FOR SMALL-SCALE FARMERS, RG CORALES et al, 2005: <http://www.cabi.org/gara/FullTextPDF/2009/20093019315.pdf>

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