

An example of Adaptation to the Climate Change in a Rural Environment

**Awareness and popularization of the
“nyeta firebox” and the pressure
cooker basket.**

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- **LOCALIZATION**

- **Sibiribougou village, located in the outskirts of Bamako.**
- **BOYANT ORGANIZATION**
- **JEKA BARA cooperative was created in 2004 by women with the aim to improve the socio-economic situation of its members on one hand, and taking part to the village economic and social efforts of development on the other hand.**

PROBLEMS TO SOLVE

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- Sibiribougou village is located in the outskirts of Bamako and is, due to its geographic position, the capital source of resupplying in firewood and charcoal.
- Like certain outer suburbs in Africa, the populations live in the precariousness and exploit their natural resources to survive. The area's ecosystem is very delicate because the village is located on the hillside of "Woyowayanko".

PROBLEMS TO SOLVE

- One notices a total deforestation of the hill which has led to water erosion with gullies all over the village. This has caused a shortage of firewood for the village families and has led to a new element of expense for families which are already poor. Facing this situation, the women of the cooperative have initiated activities to find alternative solutions to firewood. They decided to promote the use of energy saving technologies such as the Nyeta firebox and the pressure cooker basket which are less wood consuming.

OBJECTIVES

- The global objective of the plan is to improve the cooperative members' income by the yields from the selling of the Nyeta fireboxes and the pressure cooker baskets. It is also a matter of making the populations aware of the consequences of the woody resources degradation of the village hills.

STRATEGIES

- Awareness and information on the climate changes and the consequences of wood cutting.
- Women's training on the making of pressure cooker basket.
- Making and promoting the pressure cooker basket.
- Promoting the Nyeta firebox.
- Reforestation.
- **Diagram showing the links between the C.C. and the plan activities.**

**Climate change
and variability**

Rains rarity

**Reduction in vegetable
cover**

**Wood needling
increase**

Pressure on the NR

**Reduction in the
wood consumption**

**Alleviation impact
(restoration of the vegetable cover)**

**Popularization of the
energy saving
technologies (Nyeta firebox
and pressure cooker basket)**

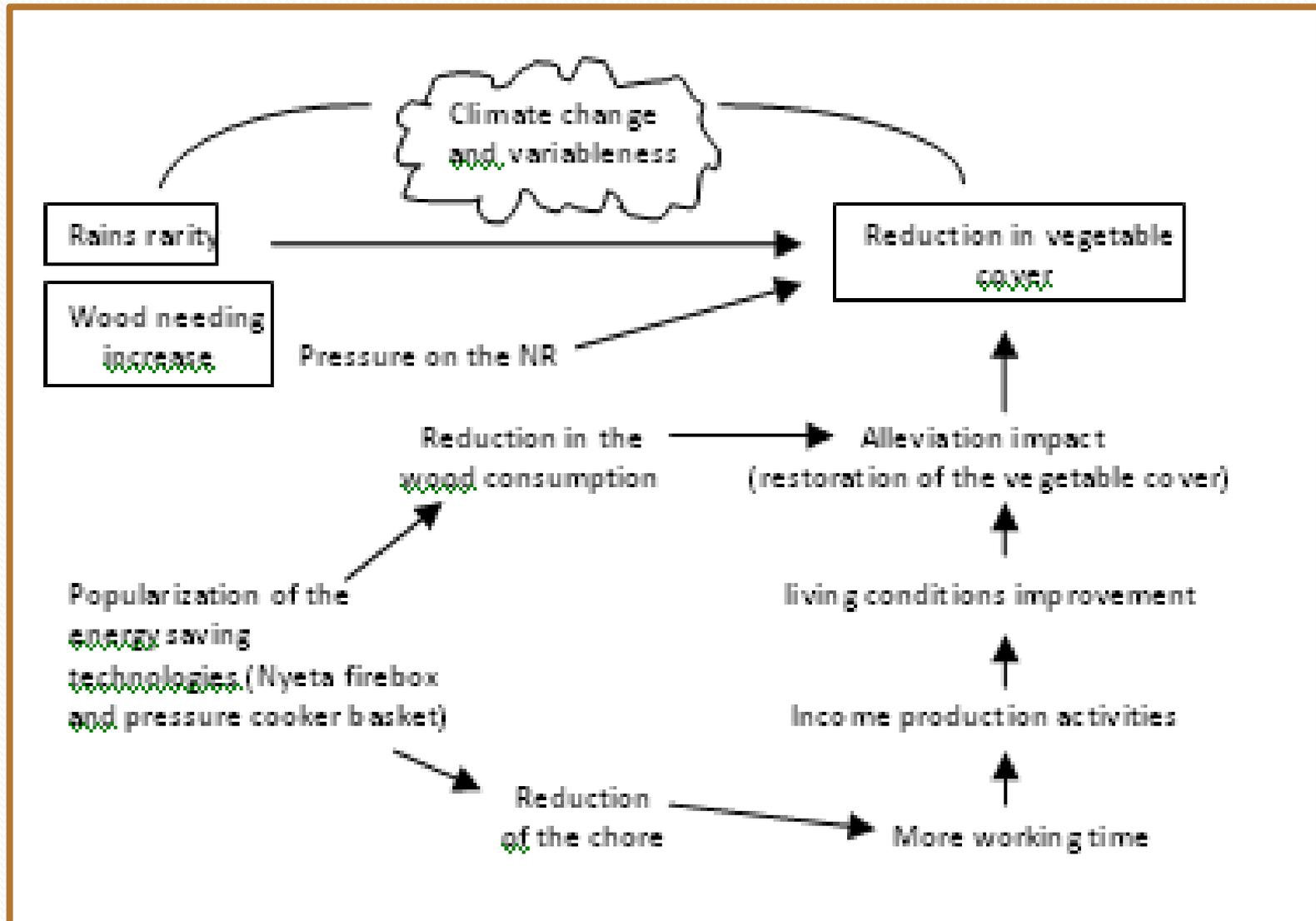
living conditions improvement

Income production activities

**Reduction
of the chore**

More working time

- Diagram showing the links between the C.C and the activities



RESULTS/ACHIEVEMENTS

- A total of 108 pressure cooker baskets and 40 Nyeta fireboxes have been made by the women of Jeka Baara cooperative. The cooperative had got 970 000F CFA from the selling of these energy saving technologies. As for the capacity reinforcement, 30 women have been trained in the pressure cooker basket making.

PROBLEMS TO SOLVE

- . The cooperative had taken part to national and international meetings, notably: the two national days of the rural woman (2009 and 2010) celebrated in Mali, the FIARA of Dakar(2010), the world social forum of Dakar (February 2011) and the SLOW FOOD meeting in Turin (October 2010). In the reforesting activities, 1000 eucalyptus plants have been successfully planted on the village hill. 100 Karité plants planted by the cooperative on the same hill are normally growing: the harvest is expected after three years time.

PARTNERS

- The local authorities in the support to the protection of the environment.
- The regional union of the Madian Coura trade chamber for the artisans' training in the Nyeta firebox making.
- The center of forestry research.

IMPACTS ON THE IMPROVEMENT OF THE PRODUCERS' LIVING CONDITIONS

- The incomes from the selling of the pressure cooker baskets and the Nyeta fireboxes have strengthened the capacity of the cooperative saving and loan funds. Today, this fund has enabled to finance more than 53 women of the Sibiribougou commune, in Mali, to lead various activities such as the retail trade, the transformation of fruits and vegetables.

IMPACTS ON THE IMPROVEMENT OF THE PRODUCERS' LIVING CONDITIONS

- Thus these activities help reduce poverty. Moreover, they enable them to intensify their financial contribution in the cooperative giving them the possibility to reinvest in other adaptive strategies. The production and the selling of the Karité butter, which will come from the exploitation of the reforested species, will increase this financial capacity.

IMPACTS ON THE IMPROVEMENT OF THE PRODUCERS' LIVING CONDITIONS

- The participation of the Jeka Baara cooperative to the meeting of TERRA MADRE (Mother Land) in Turin in 2010, thank to the support of FSSA, has given it the opportunity to deal with the Italian company Cafarelli a bargain of supplying 1000kg Karité butter Same as in its participation to the international day of the rural woman, in 2010, the cooperative have formed a partnership with Qatar Charity Mali for the delivery of 8 tons manufactured farm produces.

IMPACTS ON THE IMPROVEMENT OF THE PRODUCERS' LIVING CONDITIONS

- The economic profits drawn from these partnerships will strengthen the financial resources of the cooperative so as to help reduce in a substantial way its members' poverty.

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- The Jeka Baara cooperative is well-structured. It is divided into three sections: the section for the transformation of harvested produces, the section for the transformation of fruits and vegetables; and the section for the transformation of cereals. All the incomes from these activities are systematically divided into three parts:

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- one part is used to cover the purchase of raw materials, another part to maintain and renew its equipments and the last part to pay the women who helped generate the incomes. The contributions which are done every week serve to supply their saving fund. It is the same organizational system that has been applied to their FSSA project.

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- The cooperative, composed of 26 women, share its technical and financial account with these ones. As for the application of the funds management procedures, the cooperative have done well because the notices of credits which show that the funds have been transferred to it, are position into its account, are shown to every member.

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- It has got, as the other entire beneficiary FOs, a cosigning system for the withdrawal of the money for the activities. Order forms are issued after the selection of the Nyeta fireboxes makers. This selection is also done on the basis of the pro forma invoices submitted by a minimum of three makers. Every expense carried out is justified and validated by the chairwoman.

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- The FSSA has reinforced the leadership capacities of the cooperative in the domain of adaptation. Because, thank to its financial support, the cooperative took part to national and international meetings to promote its pressure cooker baskets. The local communities grant more importance to it now, for the Commune IV town council of Sibiribougou to which it belongs has entrusted to Jeka Baara women the protection and reforestation of the hills within its perimeter.

IMPACTS ON THE STRENGTHENING OF CAPACITIES AND THE ORGANIZATIONAL PRACTICES

- The success of this reforestation has been the main catalyst element of this collaboration. More, because of the baskets the partnership spread to the ministry woman for affairs. The project strengthened the cohesion between the members; it is easier and more profitable to work together than apart.

IMPACTS ON THE ENVIRONMENT AND THE NATURAL RESOURCES PROTECTION

- The selling and popularization of advanced fireboxes, Nyeta and the pressure cooker baskets, play determining role in the protection of the woody resources and the reduction of the green house gases. The awareness and training actions have helped reduce the tree-cutting to make charcoal They also reinforced the environmental conscious-raising. The plant of reforested species will serve as windbreak to fight against erosion.

IMPACTS ON THE ENVIRONMENT AND THE NATURAL RESOURCES PROTECTION

- To help regenerate and stabilize the hillside, the cooperative members have planted one hectare eucalyptus with a success rate of almost 100%. Besides, the cooperative have reconverted 53 charcoal producing women into advanced fireboxes and pressure cooker baskets selling women. To fill the loss of income in this reconversion, the cooperative grant some credit to these women to do the retail trade.

DURABILITY FACTORS

- This good system of managing funds and project, combined to the organizational dynamism of the cooperative and the confidence that certain partners grant like the town council to which it belongs or the ministry for woman affairs of Mali, are among other elements which can assure the continuity of the project and highly contribute to its members' vulnerability reduction at the internal and external shocks such as the high variability of the climate and its corollaries.

IMPACTS ON THE ENVIRONMENT AND THE NATURAL RESOURCES PROTECTION

- Thank to the awareness and information on the climate changes, the populations of Sibiribougou believe that this fact an act of GOD and that every citizen must adopt responsible practices that alleviate the effects and enable them to keep living. It is for this end that they undertook the reforesting activities.

DURABILITY FACTORS

- The success of Jeka Baara project and the spreading of the resultants through the making and selling of the pressure cooker baskets led the ROPPA to solicit the CNOP for the elaboration of a project for a larger scale spreading of the basket by the cooperative In terms of reproducibility, the women of Lassa, Grikumbé, Dogogoman, Kalabambougou, Tenguédo and Tanfara villages solicit the cooperative to accompany and frame them in their activities of fruits and vegetables transformation. Its collaboration with new partners like Qatar Charity is an opportunity for the continuity its actions.
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***THANK YOU
FOR YOUR
ATTENTION***