A STUDY ON THE IMPACT OF COCOA AGRO-FORESTRY ECOSYSTEM ON SOCIAL ECONOMY AND ENVIRONMENT IN A HILLSIDE LOCATION.

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OBJECTIVES

To demonstrate and quantify the triple benefits of social, economic and environmental in cocoa agro-forestry ecosystem when planted as a mixed cropping system in a degraded hillside environment.
ACTIVITIES

- Training on concept of agro-forestry.
- Installing water reservoir and irrigation system.
- Preparation of land for planting of trees.
- Selection of the desirable tree species according to the canopy characteristics and economic values.
- Design experiment following proposed of Dr. Roger Leakey (Replacement series).
Maintenance and taking records.
+ Yield of cocoa, products of other cash crops and canopy species.
+ Economic return from all different products.
+ Incidence of insect pests.
+ Biodiversity.
+ Carbon sequestration or sequestration of other trace gases affecting climate change (NO, N2O, C2H4 etc..).
+ Other aspects of agro-ecosystem function (soil fertility structure, nutrient and water cycling, prevention of soil erosion, etc..)
+ What combinations of cocoa can create a functioning agro-ecosystem that is also profitable for farmer?
OUTPUT EXPECTING

-Sustainable, steady, diversified and high income for farmers.

-Friendly environment (low chemical inputs, better water management, soil conservation).

-New techniques transferred to farmers.