TITLE

Household – level composting: Linking urban and peri-urban Agriculture to medicinal plant cultivation and Environmental Sanitation. An Experimental study carried out in Fako Division South West Province, Cameroon

BY:

Dr. NDJOMGUEM TUMA Clement-Pierre

Agrobiologist

Researcher

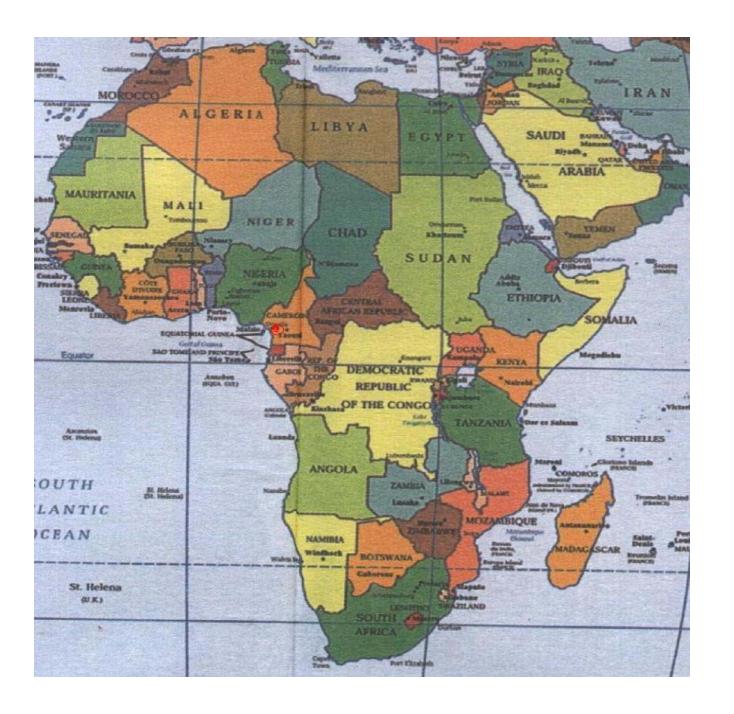
Director "NGO" 'SAVE THE NATURE'

P. O. Box 51 Buea S.W.P - Cameroon

Tel: 00 (237) 77 92 01 90

Email: savethenature_cam@yahoo.com

ndjomguemtcp@yahoo.com



INTRODUCTION

 With a sustained population growth, Sub Saharan African Cities now face the headache of urban pollution and waste disposal. The Sub Division head towns of Fako Division (Buea, Limbe, Muyuka and Tiko); South West Province of Cameroon, are no exception to this rule.



Backyard littered waste disposal



Street littered waste disposal with a warning pin board from the local council

THE GOAL

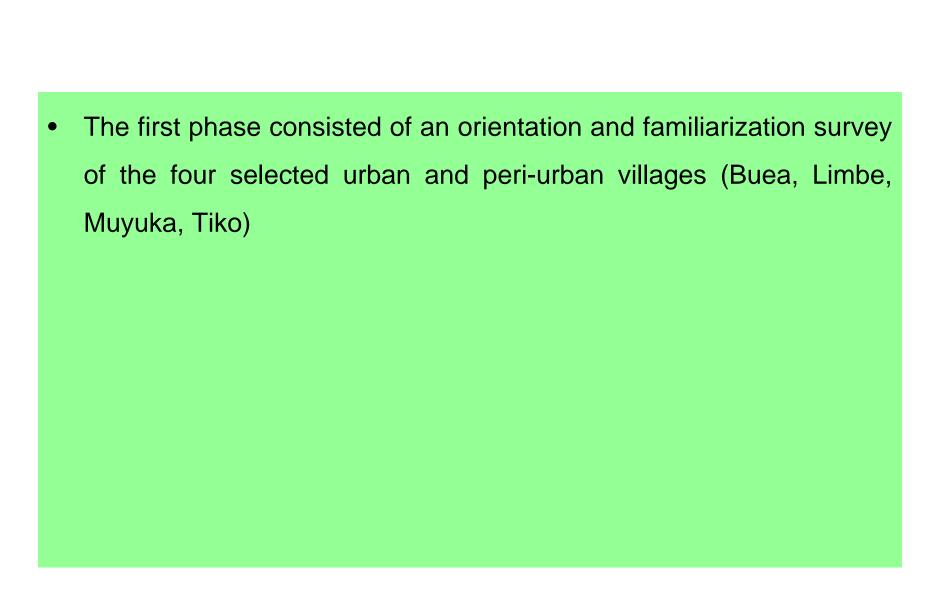
 The goal of this project is to use the already decomposed solid waste to develop urban and peri-urban agriculture and promote the cultivation of anti malarial herb (Artimisia annual).

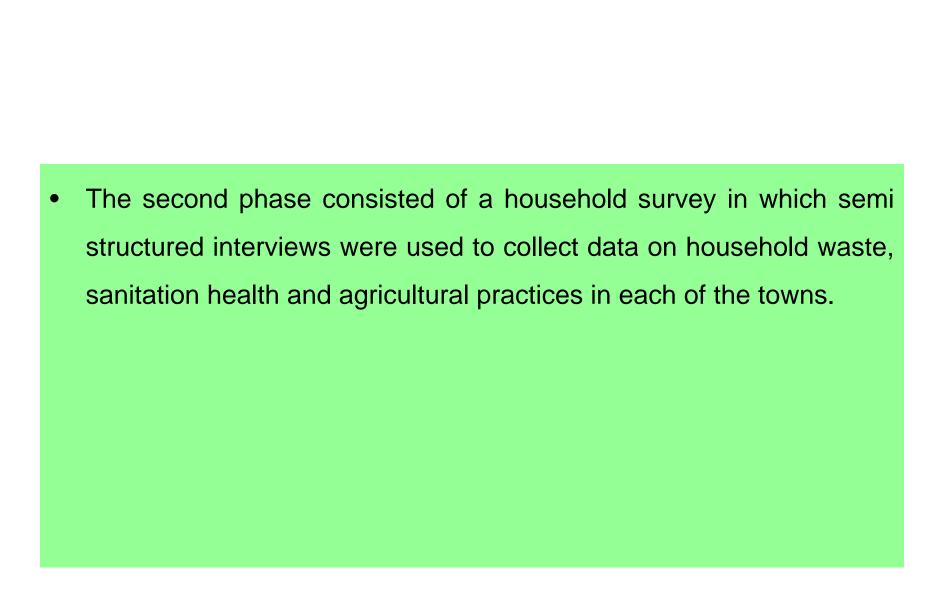
OBJECTIVES

 The major main objective of this project is to support the member of the study communities in becoming more active in environmental protection.

RESEARCH APPRAOCH

•	The Research Project was implemented using participatory action
	research (PAR) approach.





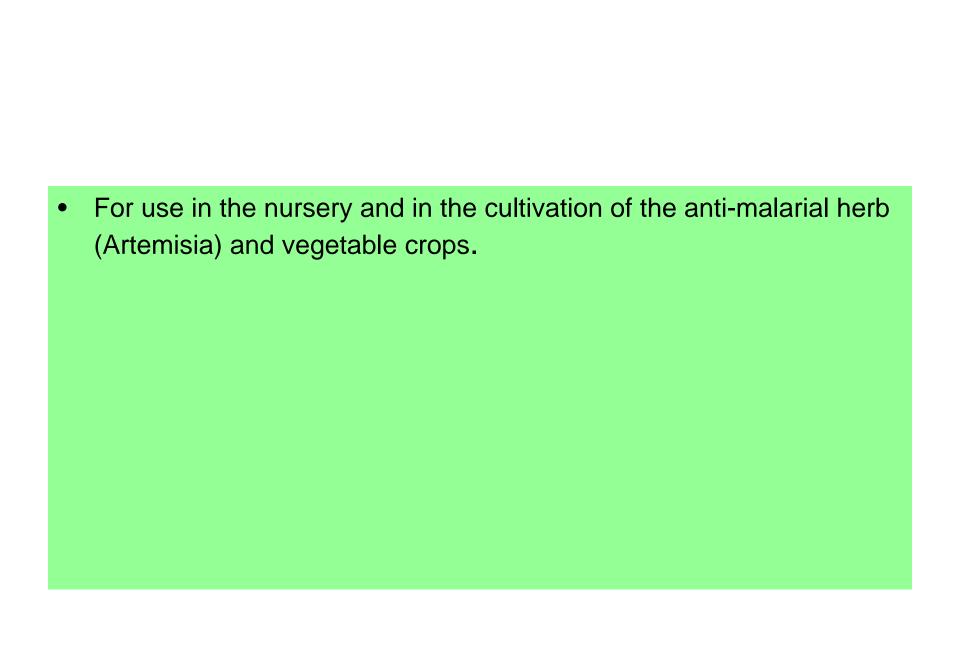
•	The third phase was exclusively practical: participants at the workshop learned how to select and recuperate the organic manure from the decomposed solid waste



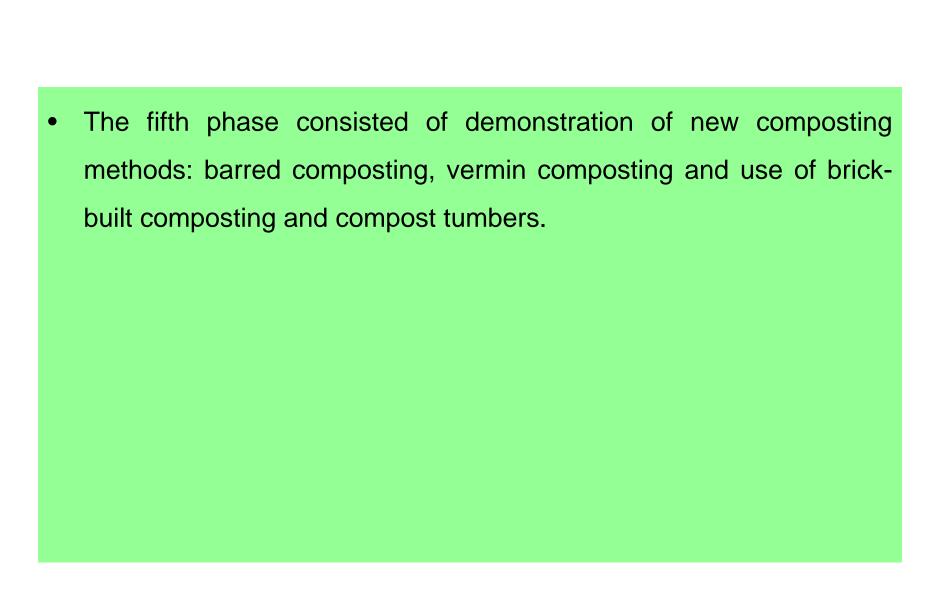
Already decompose littered waste with a warning pin board from the delegate of urban affairs.



Selection and recuperation of organic manure from the decompose littered waste



The forth phase consisted of teaching the population how to proce and use the anti-malarial Artemisia tea.	SS



PLASTIC: A CASE OF LOW BIODEGRADABILITY

 The rising quantities and proportion of plastics within domestic waste reduces the effectiveness of appropriate natural decomposition. Conversely source of plastic are being sough because fossil fuels will eventually run out. A bacterium, Alcaligenes entrophus, has the ability to produce groundnuts of a plastic called: Polyhydroxybuytyrate (PHB) and store them in the cytoplasm.

RESULT

- A total of 25 brick built compost bins and 15 compost tumblers were distributed at prominent strategic points
- Five tons of Artemisia tea were distributed and consumed by the communities over period of 6 months.
- Malaria-induced death receded by 90%.



Filling of the plastic bags with manure



ARTEMISIA plant in the nursery