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**Contribution to a replanting project  
implemented in a community forest nearby  
Ngambé Tikar (Central Region, Cameroon)**

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## Context

Active since 2000, Nature + is specialized in community based and participatory management of natural resources. Mainly operating in Central Africa (Cameroon and Gabon), Nature+ core areas of specialization are social forestry, regeneration of tropical timber species, tropical forest dynamics studies, technical assistance to companies engaged in the FSC process (e.g. integration of wildlife and social aspects in forest management) and management of non-timber forest products.

Since February 2010, Nature + is implementing the “*Partnerships for the Development of Community Forests*” project funded by the Congo Basin Forest Fund (African Development Bank) in collaboration with SNV-Cameroon and Gembloux Agro-Bio Tech (University of Liège). This project aims at promoting social and community forestry in Cameroon and is based on a decade of experience in community forestry gained by Nature+ and GxABT in the periphery of the Dja Faunal Reserve (Cameroon). More information can be found on the project’s website: [www.projet-pdfc.org](http://www.projet-pdfc.org).

CRS Europe’s donation will support the activities implemented in the framework of the PDFC project. Indeed PDFC aims at achieving sustainable forest management of community forests by promoting replanting activities (PDFC activity 2.3. « *Appliquer un mode d’intervention agro-sylvicole spécifique aux jardins de case, aux jachères et trouées* »). Thus PDFC is currently advising the community of Mambioko (near Ngambé Tikar, Région du Centre, Cameroon) to set up a tree nursery of indigenous species used for timber and non-timber forest products and replanting is programmed for the months to come.

## Replanting activities sponsored by CSR Europe

In all its projects, Nature+ encourages local communities to replant trees of either commercially interesting species or fruit trees in logging gaps and/or on agricultural land. Sustainable forest management in community forests implies that a logged tree is replaced by a young seedling raised in a tree nursery managed by the local community.

The species that are being replanted are always of interest for the locals. Trees are logged for their timber generating income and employment for the local rural population. But the importance of non timber forest products should not be underestimated either, their uses are numerous (e.g. nutrition, medication) and of commercial value. Fruit trees such as Citrus spp. help diversify the food supply and are therefore often sought for.

The replanting campaign sponsored by CSR Europe will be implemented as follows:

1. Purchase of plants
2. Collection of tree seeds in the forest
3. Maintenance of the village tree nursery for 3 to 6 months (time needed to produce viable plants) ;
4. Replanting in the community forest CRVC nearby Mambioko (Ngambé Tikar, Department of Mbam and Kim, Central Region, Cameroon)

The plants needed for the replanting campaign in the Mambioko community forest will either be bought or raised from seeds collected in the surrounding forest.

About 350 fruit and agroforestry trees will be purchased in the capital Yaoundé (see table below). Transport to Mambioko will be ensured by PDFC. The seedlings will be installed in the village nursery and cared for several months before being replanted in the home gardens.

Species	Scientific name	Number of plants
Bitter cola	<i>Garcinia kola</i>	100
Mangue sauvage/andok	<i>Irvingia gabonensis</i>	100
Safoutier	<i>Dacryodes edulis</i>	50
Agrumes	<i>Citrus sp</i>	100
<b>TOTAL</b>		<b>350</b>



Commonly called **bitter kola**, *Garcinia kola*'s seeds are subject of an intensive trade throughout the forest zone. In traditional medicine, bitter cola is known as a stimulant and would also facilitate digestion. In addition, its bark is used for the fermentation of palm wine.

*Dacryodes edulis* (**safoutier**) is a traditional food plant in Africa. Its fruits - rich in oil and vitamins - can be eaten raw, cooked in salt water or roasted. The wood has general use for tool handles, and occasionally for mortars. The tree is also known to improve soil quality by providing large quantities of biomass and is a source of many traditional medicines.



### Focus on « Andok – *Irvingia gabonensis* »



The fruit, seeds (edible nut), bark and timber of *Irvingia gabonensis* are important to the local population.

The trees are maintained in their fields as they improve the soil fertility.

The fruits (a), rich in vitamin C, are consumed directly. The seeds (b) are transformed into a cake (c) rich in lipid, protein, calcium, iron and calories, which is used to improve the taste and thicken the sauces. The commercialisation of these non timber forest products provides employment and income to women of rural communities.

The shell of the nut is carried by children to ward off diseases.

The timber is used for construction and in traditional medicine.



CSR's donation will also be used to replant indigenous tropical tree species whose timber is of high commercial value such as moabi (*Baillonella toxisperma*), sapelli (*Entandrophragma cylindricum*), doussié (*Azalia bipindensis*), sipo (*Entandrophragma utile*), and tali (*Erythrophleum suaveolens*).

Moabi tree and its fruits



Seeds of doussié (left) and sipo (right)

With the help of Nature+, the local communities will collect the seeds of these species in the forest.

The seeds will be sown in the village tree nursery of Mambioko and the seedlings looked after for 3 to 6 months until the plants have reached 60 cm of height. They will then be replanted in logging gaps inside the CRVC community forests as well as in fallows. About 1.000 timber trees are expected to be replanted thanks to CSR Europe's contribution. It is important to mention that this activity will provide employment to poor rural communities.



Villagers being trained in tree nursery techniques



Example of a village tree nursery



Daily maintenance of the tree nursery



Plants ready to be replanted



Replanting with commercial tree species in a logging gap inside a community forestry

Thus thanks to CSR Europe we expect to achieve the following results:

- 350 fruit and agroforestry trees as well as 1.000 forest trees planted inside logging gaps, fallows and home gardens;
- Employment of local community members for collecting and replanting activities.

Nature+ will provide CSR Europe a report detailing the implemented activities and the number of replanted trees.

## Budget

The estimated budget for these replanting activities is as follows:

	Unit	Number	Price per piece	Total (CFA)	Total (€)
<b>Purchase of fruit and agrofostry trees</b>					
Garcinia kola	Piece	100	800	80.000	122
Irvingia gabonensis	Piece	100	800	80.000	122
Citrus sp.	Piece	100	800	80.000	122
Dacryodes edulis	Piece	50	1000	50.000	76
<b>Sub-total purchase of plants</b>				<b>290.000</b>	<b>442</b>
<b>Forest tree seeds collecting</b>					
	<i>Men- day</i>	15	2.500	37.500	<b>57</b>
<b>Maintenance tree nursery</b>					
	<i>Month</i>	6	30.000	180.000	<b>274</b>
<b>Replanting</b>					
	<i>Men- day</i>	90	2500	225.000	<b>343</b>
<b>TOTAL</b>				<b>732.500</b>	<b>1.116</b>