

# Identification of socio-ecological factors and obstacles for agroforestry adoption-Côte d'Ivoire.

## Geographic stakes of farmers innovations in cocoa agroforestry - Côte D'ivoire- Identification of factors and obstacles for agroforestry adoption

### ABSTRACT

The main objective of the project is to understand whether new forms of agroforestry (maybe lighter densities and diversities of associated trees with a better management of the shade and canopy) could be a solution for the agro-ecological transition of cocoa cropping in Côte d'Ivoire. Underneath this main objective lie several side objectives :

- listing trees and cocoa tree interactions and compatibility from farmers knowledge
- gathering agroforestry innovations thanks to botanical inventories to understand whether cocoa farmers are adding trees in their cocoa farms
- understanding the factors and obstacles for agroforestry adoption including social, economic, political and legal extent to describe the drivers of this new socio-ecological system.
- experimenting the effects of three trees (identified by farmers as compatible with cocoa) on microclimate and more specifically their role during dry period.

We expect from this mobility to :

- be able to give advice to farmer on three trees : *Newbouldia laevis*, *Ficus capensis*, *Bombax buonopozense* .
- Completing lists that have already been set about trees and cocoa interactions based on farmers knowledge (up to 25 trees)
- Building a qualitative model of agroforestry adoption and innovation in order to facilitate any further project trying to encourage the development of agroforestry.
- Developing interdisciplinary methodologic tools to study an agroforestry socio-ecological system in a context of agro-ecological transition.
- Strengthen links with ivoirien researchers working in similar fields.

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**Project type :** AAP MOBILITE

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**Flagship project :** no

**Project leader :** François Ruf

**Project leader's institution :** CIRAD

**Project leader's RU :** INNOVATION

**Budget allocated :** 4900 €

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**Funding :** Labex