

HORA

mixing HORticultural crops and Agroforestry: A global evidence map, analysis of the farmer practices and assessment of performance

ABSTRACT

In Southern countries, trees are often cultivated with horticultural crops (e.g. mango, citrus, papaya) in multi-strata systems, such as Creole gardens (West Indies) or clove-agroforestry systems (Madagascar). These systems are particularly important in tropical regions to ensure nutritional balance, nutrients and vitamins inputs.

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Project leader : Damien BEILLOUIN Project leader's institution : CIRAD Project leader's RU : HORTSYS

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GOAL

Our objectives are to i) produce an evidence map of the knowledge and practices on such systems and produce a typology of the systems around the world.

We hypothesize that :

- The characteristics of the system (complexity, cultivated species, etc.) and their performance differ according to agro-ecological zones.

- The experiments detailed in the scientific literature represent only part of the diversity of systems observed locally.

ACTION

Literature review, Evidence map and meta-analysis of Horticulture-Agroforestry systems in the tropics. Objective : Global and exgaustive assessment of scientific available knowledge on agroforestryhorticultural systems.

- Prospecting campaign and analysis of experts and farmers' knowledge on clove-Agroforestry systems Objective : Assessment of farmer knowledge and practices on agroforestry-horticultural systems in Madagascar, Mayotte and the Comoros

RESULTS

An open-acess literature database on scientific knowledge on horticulture-Agroforestry systems. - A precise description ok knowledge and knowledge gaps on theses systems



- A Quantification of the performance of the systems
- A precise typology of Horticulture-Agroforestry systems in the tropics

- A quantification based on probabilistic expert elicitation of the performance of clove-tree agroforestry systems in Madagascar

PERSPECTIVES

Creation of a multi-institutional working group on horticultural -agroforestry systems