

# HORA - Mixing Horticultural crops and Agroforestry

A global evidence map, analysis of the farmer practices and assessment of the performance



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.

## OBJECTIFS

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.



## RESULTATS

- An open-access literature database on scientific knowledge on horticulture-Agroforestry systems.
- A precise description of knowledge and knowledge gaps on these 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.

## ACTIONS

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

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**Pays concernés:** Madagascar, France, Comores

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