FONTAGRO, ESTADOS UNIDOS

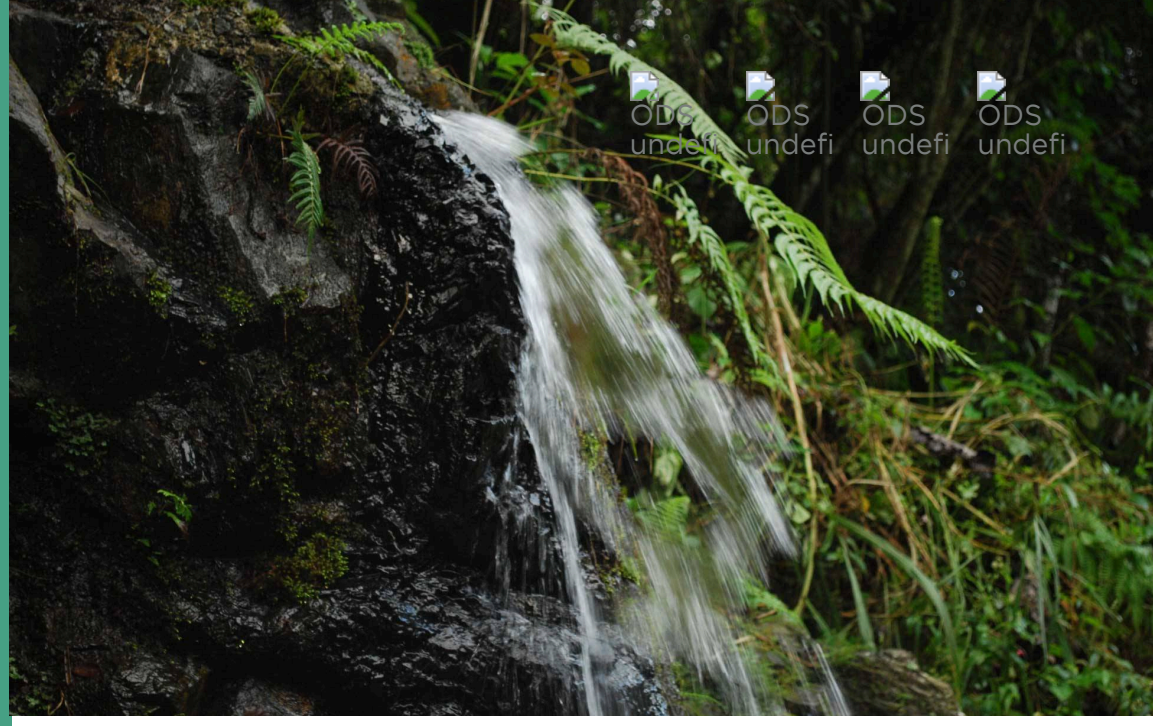
Agroforestry in the Dominican Republic

Analytical study of innovations in agroforestry that could contribute to sustainable rural development, vulnerability reduction and adaptation to climate change in river basins occupied by smallholding agriculture in the Dominican Republic.

7
Watersheds analized

5
Agroforestery systems proposed

21759
ha to be covered by the innovatios



Experts assess agroforestry innovations

Initiative

With FONTAGRO´s support, CIRAD and ICRAF evaluated the proposed ADP and suggested locally adaptable, sustainable and resilient technology options for a modified ADP. The consultancy, which gathered the opinion of farmers and other actors, was oriented to:
1. Define the problems considering the agricultural, social, economic and environmental context in each watershed.
2. Identify appropriate agroforestry systems and the conditions that facilitate their adoption.
3. Evaluate the economic and environmental viability of the options identified.

Agroforestry as a sustainable innovation

Tech solution

The consultants evaluated the technological packages proposed by the ADP and suggested potentially sustainable and resilient agroforestry alternatives to cope with climate change. Expert knowledge was applied to the analysis of the local socio-ecological, agricultural, socio-economic and environmental context, which was supported by interviews with farmers and local actors. A database was analyzed, field visits were carried out and a comparative analysis between field observations and documentary information was conducted. While the original ADP suggests simplifying current agroforestry systems, based on coffee and home gardens, along with a reduction in cultivated biodiversity and introducing intensive monoculture of avocado, cocoa and mango with greater input use, the consultancy proposes five diversified agroforestry options, based on coffee, cocoa and avocado, which would allow a sustainable transition between current systems and the intensive model proposed by the initial PDA.

MORE INFO

Impacts and Results

The study proposes five agroforestry packages: simple coffee, complex coffee, simple cacao, complex cacao and avocado, differentiated by varieties, planting density and associated crops. Its implementation requires making a typology of producers by sub-basin, zoning of climates and soils, carrying out a transitional transfer and an environmental and agricultural integration, and designing a marketing and monitoring strategy. The impact will occur in the future in the project areas after its execution. The area to be intervened is 21759 ha within 10 years. The beneficiaries will be the rural communities of the seven river basins considered in the proposal.

Main Donors

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Organizations