

AGROFORESTA

Latin America scientific platform on agroforestry



- Increase the productivity, competitiveness and sustainability of agroforestry systems in Latin America
- Improve the income and well-being of families that use agroforestry systems for crop production
- Develop research and development projects and promote teaching in agroforestry

A platform in partnership for research and training (dP in French) is a long-term strategic alliance made up of a critical mass of partners and researchers around a shared program and portfolio of projects. Managed collectively, the Platform is open to members of civil society to facilitate its impact and also interacts with public policy decision makers in order to generate changes and transformations.



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Terrestrial natural resources are under increasing pressure, especially in tropical countries, as the world's population continues to grow. Agroforestry systems (AFS), in which different perennial and annual plant species are grown together on the same plot, can play an important role in sustainable development via an improved productivity and use of natural resources compared to mono-crop systems.

These systems are characterized by their great complexity and variability in terms of species composition, management systems, and agroecological and socioeconomic conditions, among other factors.

Therefore, research must be carried out in a long term and interdisciplinary manner to generate relevant results that can produce improved technologies and practices and, ultimately, generate innovations that are useful to farmers.

AGROFORESTA IN A NUTSHELL

- created in 2007
- 5 research and training institutions
- 1 observatory of agroforestry dynamics
- 2 long-term agroforestry platforms (cacao and coffee)
- 40 partners
- 50 researchers
- 20 international projects in progress
- 50 publications per year



MEMBERS



CATIE
Centro Agronómico Tropical
de Investigación y Enseñanza
www.catie.ac.cr



Cirad
Centre de coopération Internationale
en Recherche Agronomique pour le
Développement
www.cirad.fr



Promecafe
Programa Cooperativo Regional para el
Desarrollo Tecnológico y Modernización
de la Caficultura
www.promecafe.net



**The Alliance of Bioversity
International and the
International Center
for Tropical Agriculture (CIAT)**
www.alliancebioversityciat.org



CIFOR-ICRAF
<https://www.cifor-icraf.org>

SOME PARTNERS

Partners from Latin America and the Caribbean: Universidad de Costa Rica, Instituto Tecnológico de Costa Rica, Universidad Earth (Costa Rica), Universidad de San Carlos de Guatemala, Inta (Nicaragua), Agrosavia (Colombia), INIA (Peru), INIAP (Ecuador).

International Partners: Bangor University (UK), Laval University (Canada), Wageningen University (The Netherlands), Institut Agro Montpellier (France), USDA-ARS (USA).

Beneficiaries and decision makers: farmers cooperatives & organizations, (Corbana, AYITIKA SA, iCafé, Coopagro), private sector (ECOM, Lindt, Nestlé), NGO (AVSF), Administration offices (SAG Honduras, Proamazonia Ecuador).



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SOME PROJECTS IN PROGRESS

TerrAmaz, Sustainable territories in the Amazon, Brazil - Costa Rica - Ecuador - Peru, 2020-2024, financing by Agence Française de Développement (AFD).

The TerrAmaz Project aims to support the Amazonian territories in of the implementation of policies to combat deforestation while transitioning to a low-carbon development model that reconciles economic development and ecosystem conservation.

PITAG, Technological Innovation Program for Agriculture and Agroforestry in Haiti - Agroforestry with a focus on cacao and coffee, 2019-2024, financing by Inter-American Development Bank, World Bank and Global Program for Agriculture and Food Security.

Develop coffee and cacao-based agroforestry systems that maximize the supply and quality of products (coffee, cacao and others) and ecosystem services and provide a risk management strategy (resilience to extreme weather conditions in particular).

Cacao Forest, "Innovation for a sustainable future of cacao production in the Dominican Republic». Phase II, 2020 - 2023, financing by AFD and Terra Isara Foundation.

In the second phase of the project, the objective is to validate cacao production models, create marketing channels for cacao products and carry out a feasibility study for a cacao plantation renovation program.

GANa, "Intercultural models to improve the nutrition and health of indigenous peoples through agroforestry practices with a gender perspective in Peru", 2019 - 2023, financing by Medical Research Council (MRC, UK - Newton-Paulet Funds) y ConCyTec (Peru).

Its objective is to design agroforestry solutions with a gender perspective that considers culture and offers food-based recommendations that can sustainably improve the nutrition and health of the indigenous peoples of the Peruvian Amazon.

EXPERIENCE AND TECHNICAL KNOWLEDGES

- Carbon and water balances in agroforestry systems and environmental services.
- Genetic improvement of coffee and cacao
- Agricultural diagnosis and climate-smart agriculture
- Establishment of geographical indications and traceability of production
- Development of strategies for the sustainable management of disease resistance and early warning
- Engineering of post-harvest processes
- Digital agriculture and citizen science
- Static, bioeconomic, mechanistic and multi-agent modeling
- Online and field training short courses, academic courses (International Master Program in Agroforestry and Sustainable Agriculture, International Diploma in Coffee)



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OUR TOPICS OF INTEREST AND PRODUCTS

SCIENTIFIC TOPICS

TOPIC 6

Biophysical processes and biodiversification at plot and landscape scale

TOPIC 1

Role of agroforestry systems in farmers' livelihoods, collective wellbeing, social and economic development and equity

TOPIC 2

AFS Participatory Innovation for Productivity, Profitability and Sustainability

The Agroforesta platform, with the participation and support of multiple stakeholders, contributes to increasing the productivity, competitiveness and sustainability of agroforestry systems with perennial crops in Latin America through the quantification, evaluation and development of potential environmental products and services of these agroforestry systems, taking into account the magnitude and effects of climate change

TOPIC 5

Effects of policies and tools on the development of AFS

TOPIC 4

Resilience and transformation of production systems and territories

TOPIC 3

Diversification and valorization of AFS products and services - Distribution of added value along inclusive value chains

PRODUCTS



Innovative Agroforestry Systems

Improved capacities & skills: farmers, technical staff, organizations, researchers, and students



Tools and recommendations for policies

Technical and scientific publications



Extension and training material

Important contribution to postgraduate education



Impact Evaluation