



## SUSTAINABLE DEVELOPMENT OPTIONS AND LAND-USE BASED ALTERNATIVES TO ENHANCE CLIMATE CHANGE MITIGATION AND ADAPTATION CAPACITIES IN THE COLOMBIAN AND PERUVIAN AMAZON WHILE ENHANCING ECOSYSTEM SERVICES AND LOCAL LIVELIHOODS

As of: August 2019

## OBJECTIVE AND ACTIVITIES

The project aimed at developing the capacity of the national environmental authorities and local farmers in the Amazonian regions of Peru and Colombia to reduce greenhouse gas emissions and advance efforts to adapt to the impacts of climate change. To achieve this, it supported the development and implementation of sustainable land use measures that help to preserve carbon sinks in selected pilot regions. The first stage involved analysing the impacts of climate change on the agricultural sector and on water-related ecosystem services and thus identifying the need for adaptation. In consideration of the needs of local communities, the project introduced customised, sustainable land use measures and increased the expertise of its partners in the fields of monitoring and evaluation. It demonstrated possible ways in which Peru and Colombia may use these land use measures to achieve the ambitious goals they set themselves in the field of climate change mitigation.

### STATE OF IMPLEMENTATION/RESULTS

Project completed

- In August 2017, the Workshop "Sustainable production systems for improved soil quality" with farmers from the project area in Colombia was conducted. The purpose was to train farmers to gain more knowledge on soils management and the effect of promissory sustainable practices on soil

## PROJECT DATA

### Country:

Kolumbien, Peru

### Implementing organisation:

International Center for Tropical Agriculture (CIAT)

### Partner institution(s):

- Ministry of Environment (MINAM) - Peru, Ministry of Environment and Sustainable Development (MADS) - Colombia
- National Agrarian University La Molina (UNALM) - Peru, Potsdam Institute for Climate Impact Research (Potsdam-Institut für Klimafolgenforschung e.V. - PIK) - Germany, Research Center for Sustainable Agricultural Production Systems (CIPAV) - Colombia, SINCHI Amazonian Institute of Scientific Research - Colombia, The Peruvian Amazon Research Institute (IIAP) - Peru, University of the Amazon - Colombia

### BMU grant:

€ 4,874,961.14

### Duration:

09/2014 till 12/2018

### Website(s):

<http://amazonlandscapes.org/>

### Related news and movies

### Related publications





restoration already undertaken by some farmers in the region.

- The project was working with 24 farmers in Caquetá (Colombia), and implemented sustainable production systems, specifically four silvopastoral options. It was also working with 19 farmers in Yurimaguas (Peru) and implemented sustainable production systems, including cacao in agroforestry systems, enrichment planting, trees in degraded pasture lands and silvopastoral systems in areas with livestock. These farm labs were established on a total of 254 ha. The project has designed as land use alternative packages as sustainable business models promoting sustainable alternatives in deforested areas, affected by the armed conflict in Colombia.
- The project conducted several farmer field days and training workshops to further strengthen the local knowledge a range of different topics. By the end of 2017, a farmer-to-farmer exchange between farmers from Peru and Colombia was held in Colombia. In 2018, another exchange took place in Peru to share experiences on cacao, palm hearts and non-timber products.
- The project made conservation area agreements within farms for 128 ha, 21 ha in Colombia and 107 ha for conservation in Peru.
- MINAM through its Directorate of Territorial Ordering (“Ordenamiento Territorial”) has adopted the Terra-i system for land use monitoring since June 2016. ([terra-i.org/...](http://terra-i.org/)). From 2017 on, MINAM was administrating the system autonomously.
- The project involved 18 local students from Universidad de la Amazonía in Caquetá which were working in an area that had been affected by the armed conflict and deforestation. The students implemented their research projects in alignment with project’s working packages and received specific trainings at CIAT in sustainable soil management, generation of sustainability indicators, participatory rural appraisals, etc.
- A panel of 15 experts from four institutions (CIAT, CIPAV, UNIAMAZ and PIK) was created in order to build a sustainability index, that





contributed to the formulation of public policies.

- The publication “Especies vegetales útiles para sistemas silvopastoriles del Caquetá, Colombia” was released in 16 June 2017. This publication compiles knowledge and experience of CIAT, CIPAV, Universidad de Amazonia and GIZ.
- The scientific paper “Aerial and surface rivers: downwind impacts on water availability from land use changes in Amazonia” was published in February 2018. Another paper on trade-offs between Sustainable Development Goals (SDGs) received a wide media coverage ([doi.org/...](https://doi.org/...)).
- On May 29th and 30th, 2018, the participatory workshop “Validation and post-evaluation of sustainability indicators with and without land use alternatives promoted by the project” was held in Yurimaguas, Peru, with 11 farmers and local researchers in order to validate the indicator of sustainability developed by the project. The corresponding workshop for Colombia was held for 30 farmers and local researchers in Caquetá.
- From 15th to 19th, July 2018, a farmer-to-farmer exchange was carried out in Peru where Peruvian farmers shared to farmers traveling from Colombia experiences in improved management of cacao, palm hearts and non-timber products with Colombian farmers [blog.ciat.cgiar.org/...](http://blog.ciat.cgiar.org/...)
- Within the framework of the IV Colombian Congress of Ecological Restoration, carried out from July 30th to August 3rd in Caquetá, the project supported the event with a side event entitled: "Monitoring systems in ecological restoration". ([congreso2018.redcre.com](http://congreso2018.redcre.com))
- Project information was disseminated over various social media platforms like twitter with (#AmazonianLandscapes), the project (website [www.amazonlandscapes.org](http://www.amazonlandscapes.org)) and the institutional blog. A communication video of the project’s advances is available in English ([www.youtube.com/...](http://www.youtube.com/...)) and Spanish ([www.youtube.com/...](http://www.youtube.com/...)).

