



PRO
NATURA Applied
Sustainable
Economy

INHAPARI

QUARTELY NEWSLETTER
JULY 2018

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Quarterly Newsletter
July 2018

ACKNOWLEDGMENTS

The past few months have been very intense and productive. I clearly realize the great collaborative effort of each partner in a structuring project, that will certainly be a reference. We had many days of training in Agroecology, model unit creation, Natural Agriculture and Culinary for food security, Cooperativism training and creation of the indicators and monitoring system by the Pedagogical University. Our special thanks to the support of the Government, creator of the Chipembe Farm Project, represented by Mr. Haggai Mario and Mr. Arsênio, for the authorization to begin the construction of the rural training center "Centro de Agroecologia Guy Renaud". Together we go further!

Fabiane Luisi Turisco

Executive Officer of the Family Agriculture Development Program in Mozambique - Chipembe Farm Pilot - Cabo Delgado

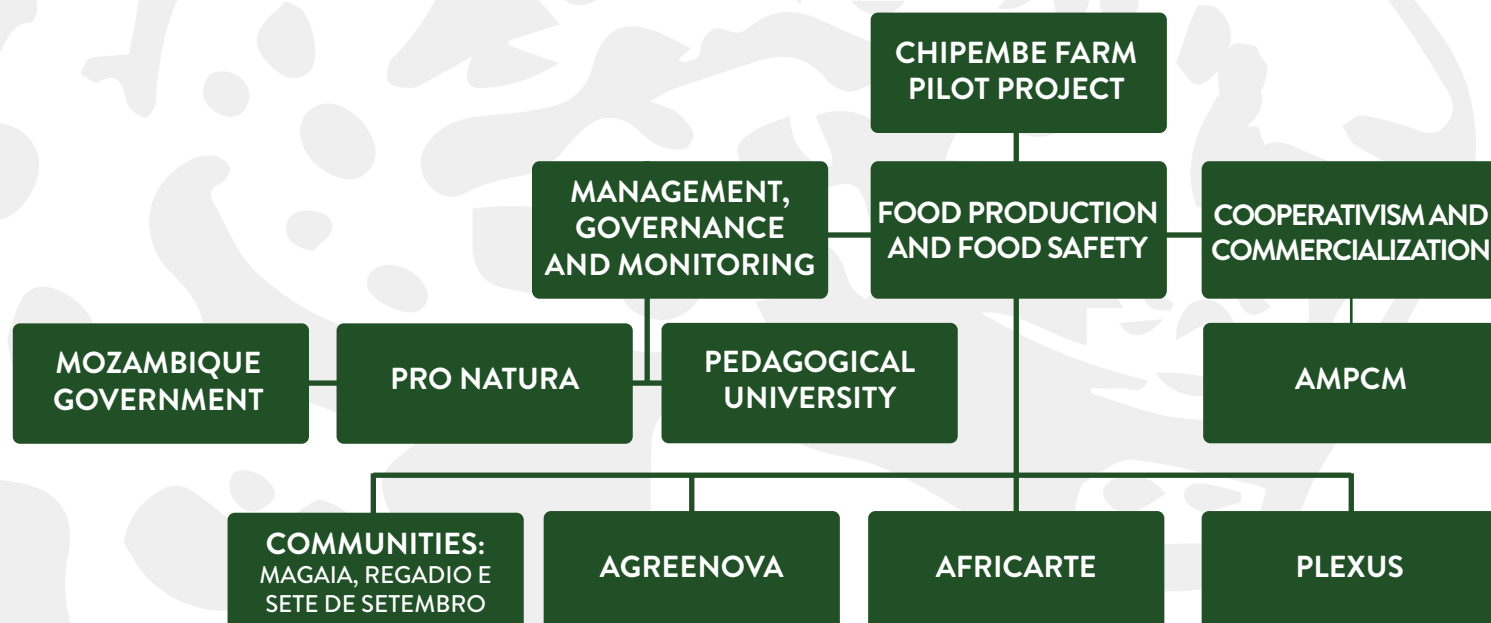


Chipembe Farm producers in an interview with Pro Natura.



Leadership working together in July: Ms. Betinha Ribeiro from Pro Natura, Mr. Arsenio from SDAE of Balama, Mrs. Adriana Otutumi from Africarte and Mr. Antônio Florindo from AMPCM.

OUR STRONG TEAM



OUR LOCATION: CHIPEMBE FARM

The Chipembe Dam was built as part of bilateral ties of friendship and cooperation with the Republic of Korea in the 1980s on the Montepuez river to conserve water and irrigate agricultural fields in the Balama District in southern Cabo Delgado. The Chipembe irrigation requires its rehabilitation because at the present moment has almost half of its retention capacity and it was built at height level, with the aim of producing rice and other cereals in scale, to feed the population, in accordance to the dream of Samora Machel, first President of Independent Mozambique.

OUR GOAL

To develop a new, sustainable, climate friendly, cooperative farm model for small producers, maximizing the benefit of using technology and mechanization of cutting edge farming, agricultural inputs with quality and local technical support to produce throughout all the year products with high quality, generating income, food security, providing a better quality of life for their members, families and related communities.

OUR ADVANCES



GOVERNMENT Agroecology Center Guy Renaud.

Meetings of alignment and orientation were held. The Program was authorized to start the construction of the rural

training center.

The Mozambican government is the main partner of the project and also owner of the lands in the Chipembe Farm. The president is Mr. Filipe Jacinto Nyusi and Cabo Delgado Governor is Mr. Julio José Parruque. The Provincial Government of Cabo Delgado is composed of the Provincial Governor, Directors and other provincial officials' employee. At the district level, Public Administration is provided by District Administrators, including some Sectorial District and Executive Directors. The Balama District Administrator and the District and Economic Activity and Services Administration (SDAE) are also the main stakeholders in the public sector.



UP - Social Technology

Aiming for the creating of Social Technology for the program replication, the PNI established a

partnership with the Pedagogical University (UP) based in Montepuez to fund 10 student scholarships to measure and evaluate the impacts generated by the project in the territory chosen. All the students are from the agronomy course, have received training from PNI, and are being supervised by teachers to collect the necessary data and measure the evolution of the project.



Agronomy students of the Pedagogical University on a technical visit in Farm Chipembe.



**PLEXUS
GROUP**

**PLEXUS
Organized Agriculture**

The responsible partner for agricultural management is Plexus Moçambique Ltda (PML), which has extensive experience with organized farmers collaboration, both in production blocks and in associations.



Cotton farming at Chipembe Farm.

One of PML's goal is to increase production and productivity per hectare and the production of each farmer through the use of high quality inputs, good agricultural practices and mechanization. In this campaign, PML began a work in the Chipembe Farm, which is a public land with PML concession and consists of 600 hectares of family farming. This work was carried

out through partnerships established between Plexus, Government of Cabo Delgado and Syrah. Open areas are divided in order to favour crop rotation and each of the 200 farmers has access to an average of three hectares, where one of the following crops is grown on each hectare: cereals, legumes or cotton. The estimated yield per hectare is: 600 kg of cotton, 1,000 kg of beans and 500 kg of maize.

600 ha

CROP	AREA (HECTARE)
Corn	230 ha
Cotton	200 ha
Bean	80 ha
Rice	25 ha
Others	40 ha
Horticulture	25 ha



Cotton Field at Chipembe Farm



AGREENOVA Creation of the basic module

In April a basic production module was created to guide the implementation of the 25 hectares.

This work presents the monitoring and validation of the pilot project with a basic production module (1,000 m²) aimed at family agriculture that guides the implantation of 25 hectares of horticultural crops and its feasibility of multiplication in other areas, aiming for the strategy of sedimentation for the sustainable development for the rural environment of the Chipembe Dam region in the Cabo Delgado province of Mozambique.

The work has its focus on family agroecological horticulture, increased with a diversified production of foods (vegetables, fruits, medicinal plants and spices), which can substantially contribute to the region, since the model is an important strategy to supply families and to generate surpluses for commercialization,

contributing to the supply of the domestic market with quality products (without the use of chemicals) and food security, besides the generation of employment / income, strengthening the family agriculture and the regional economy.



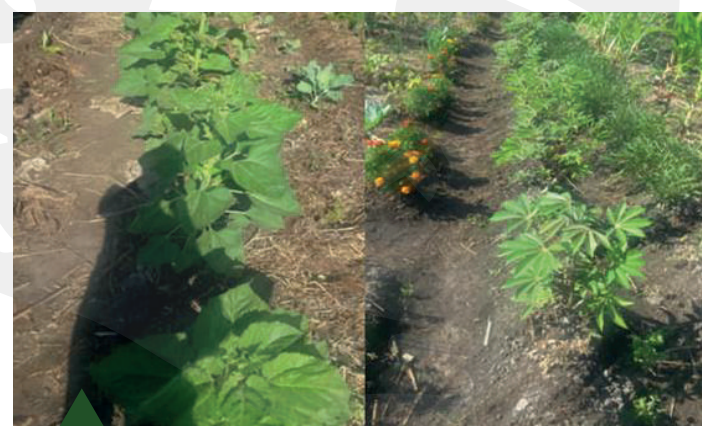
Training of the process of composting organic materials and its use for the preparation of natural fertilizers.



Preparation of the pilot project area and the implementation of the basic production module.



Demarcation of the area and formation of the pilot plant for the sowing, on the basis of the conservationist agricultural practices.



Monitoring and evaluation of plantings, organic matter content, soil water conservation, soil temperature, weed emergence, among others.

As part of the implementation of the Farm Pilot Chipembe project, which is being implemented by PRO NATURA and AMPCM - Association for the Promotion of Modern Cooperatives, on April 14, 2018, the Program Director was in the AMPCM Cooperative Law Training in the District of Balama, Province of Cabo Delgado, to proceed with the first diagnosis and training in Modern Cooperativism, Dissemination of the New Cooperative General Law, Good Governance in Cooperative Ventures and Procedures for the Establishment of a Modern Cooperative on Farmers' Associations in Aldeia de Magaia, in the Chipembe Irrigation in the district of Balama, Province of Cabo Delgado.

- ✓ Approximately 47 members of local farmers' associations trained in the foundations of modern cooperativism and good governance in cooperative enterprises;
- ✓ The new general law of farmers' cooperatives has been made public;
- ✓ Farmers trained for the creation of a modern cooperative;
- ✓ Training on the registration process in the Registry of Legal Entities and publication of the cooperative in the Boletim da República de Moçambique;
- ✓ Training in Good Governance in cooperative companies;
- ✓ Visit to Balama District Economic Activities Services.

In July 2018 the Chipembe Irrigation Producers Cooperative - COOPAREC, Limited was created. The General Shareholders' Meeting was held and the corporate bodies were elected, as well as the articles of association that were duly recognized in the local Conservatory.



Training on the foundations of modern cooperativism and good governance in cooperative enterprises.

Africarte is a non-profit Mozambican institution with a national scope that has been operating in Mozambique since 2007. The aim of Africarte is to promote the development of Natural Agriculture by encouraging the practice of home farming, development of machambas (small plots of family agriculture) and promotion of a healthy diet through the creation of alternative recipes that value the local culture.



Lecture on composting by the rural development technician Esmeralda Vilanculo.

A food safety interview was conducted in order to know the community's eating habits, their assets and production potential that could contribute to the improvement of diet and income generation.

Technical training was carried out for the implementation of production models based on the Natural Agriculture method, as well as cooking workshops, involving techniques for harvesting, sanitizing, preparing and preserving food.



Cooking workshop with preparation of vegetable soup and bean burger.

PRO NATURA MANAGEMENT TIME

MARCELO CARVALO DE ANDRADE

CEO and Chairman

Brazilian, with more than 32 years of experience working in the area of socioeconomic development and implementation of sustainable corporate projects. In 1985, he founded Pro Natura in Brazil and is also a co-founder and partner of Earth Capital Partners, one of the largest investment funds in sustainable companies in the world. He is the only Brazilian listed as one of the visionaries of our time in book "True Visionaries of Our Time".

GUY REINAUD

Chairman Emeritus

Guy was the Global Executive Officer of Imperial Chemical Industries between 1973 and 1992. Guy is known as one of the leading promoters of Conservation and Agriculture of our time. He is currently a member of the Board of several international institutions such as Vigeo, IBI (International Biochar Initiative), IUCN France, Eco-Carbone, European Foundation for Sustainable Territories and JTS.

FABIANE LUISI TURISCO

COO

Law Graduated from São Bernardo do Campo Law School, post-graduated in Contractual Law from PUC-SP, MBA in Business Management from the Getúlio Vargas Foundation and Master in Management Systems, with emphasis on Corporate Social Responsibility from Federal Fluminense University - UFF.

FABIANO MACHADO

CFO

Economist with more than 10 years of experience in financial planning and analysis, feasibility study, financial instruments and structuring of new business for private equity and venture capital sectors.

BETINHA RIBEIRO

Local Mozambique Coordinator

Mozambican agronomist, with more than 8 years of field experience, including training, support for extension agents, preparation of newsletters and reports and curriculum plans. Besides Portuguese, she speaks Macua fluently.

WILFRID PINEAU

Director of Pro Natura France

Agronomist specialized in biopharmacy, biochar specialist, with more than 20 years of experience. Project Manager and Sustainability Coach at ISTOM in agroforestry course for 3rd and 4th year students. He has developed several agroforestry and pilot training programs in Africa and South America, including the application of "Super Vegetable Gardens" and biochar.

ELAINE ROSA

Administrative and Financial Coordinator

Graduated in Administration with 15 years of experience in the area.



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