TECHNISCHE UNIVERSITÄT FONASO Dipartimento Territorio e DRESDEN Sistemi Agroforestali **Making Social Forestry Work:** A comparative study of smallholder reforestation projects in Paraguay

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Introduction: Social Forestry

- "forestry which aims at producing flow of protection and recreation benefits for the community" (Westoby 1968) "a programme of activities to encourage those who depended on fuelwood and other forest
- products to produce their own supplies in order to lighten the burden on production forestry" (GOI 1976 in: FAO 1991)
- "the science and art of growing trees and/or other vegetation on all available land, in and outside forest areas and managing the existing forest with intimate involvement of the people and integrated into other operations, resulting in balanced and complementary land use with a view provide a wide range of goods & services to the individuals as well as to the society" (Tiwari 1983) "refers to the promotion and self-help management and use of trees and perennials to sustainably
- improve the livelihoods of local people, especially the poor, generally using participatory methodologies" (FAO 1994 in: Lacuna-Richman 2012)
- "In the 1970s, 1980s, and 1990s, almost all countries that were or remain in the developing world experienced the introduction of one kind of social forestry or another, either by their government or by non-government organizations, at varying scales of implementation and incorporating a mix of practices" (Lacuna-Richman 2012: 5)

S		orestry: Gener	al Goals	
Social Forestry: General Goals				
meeting the needs raising i of local people for creatin fuelwood, fodder, employ timber, NTFPs and pro	ng new yment	reclaiming degraded land for productive use	improving the environment	enhancing local participation & site-specific solutions

Paraguay has one of the smallest forest plantation areas in Latin America currently estimated at $66\ 000\ hectares$ (INFONA 2011). Additionally in the second half of the 20^{th} century the dramatic deforestation rate assessed by the World Resources Institute reached 2,65% (Quintana and Morse 2005: 67). Those are just some of the reasons explaining the particular importance of promoting plantation activities within the country. One such initiative has been the PMRN project of the German Development Agency (GIZ) involving assistance for smallholders in the establishment of forest plantation plots (PMRN 2009; 2011).

Forest Plantations in Paraguay



PMRN - Proyecto Manejo Sostenible de Recursos Naturales The PMRN project of the German Development Agency (GTZ) started in the year 2003 under the motto for the sustainable management of natural resources. One of the interventions has been reforestation with both exotic and native species It is estimated that under the project work with small producers, about 3500 ha of land has been reforested (Eucalyptus spp. and Melia azedarach). The beneficiaries of the project received plants and trainings. The plantations have been established mainly for timber production and fuelwood, and some additional own use by the producers (construction etc.). It has been estimated that the production potential of fast-growing plantations in the project is about 20m³ha¹year¹

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Research Question and Hypothesis

RQ: Why in the same region and operating under the auspices of the same external project are the results of small-scale social plantations in Cuatro Vientos and Chore communities so different?

We hypothesize that it is because of the different institutional context in which the project was implemented. And so, the general observation is that for social forestry (reforestation) to provide long a functioning term socio-economic and environmental benefits, institutional setup and a wider developmental approach is necessary.



Research Design

- The research was conducted as two case-studies: Cuatro Vientos and Chore communities - representing the area with well developed local institutions (cooperative) and an area with limited social organization and very similar background conditions. case study 13 farmers with PMRN forest plantations were
- selected (purposive sampling) for HH survey, questionnaire on socio-economic and environmental plantation impacts, involving visits with the owners on the plantation sites and discussion on the project and its effects.
- Additionally local experts were selected for semi-structured interviews











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