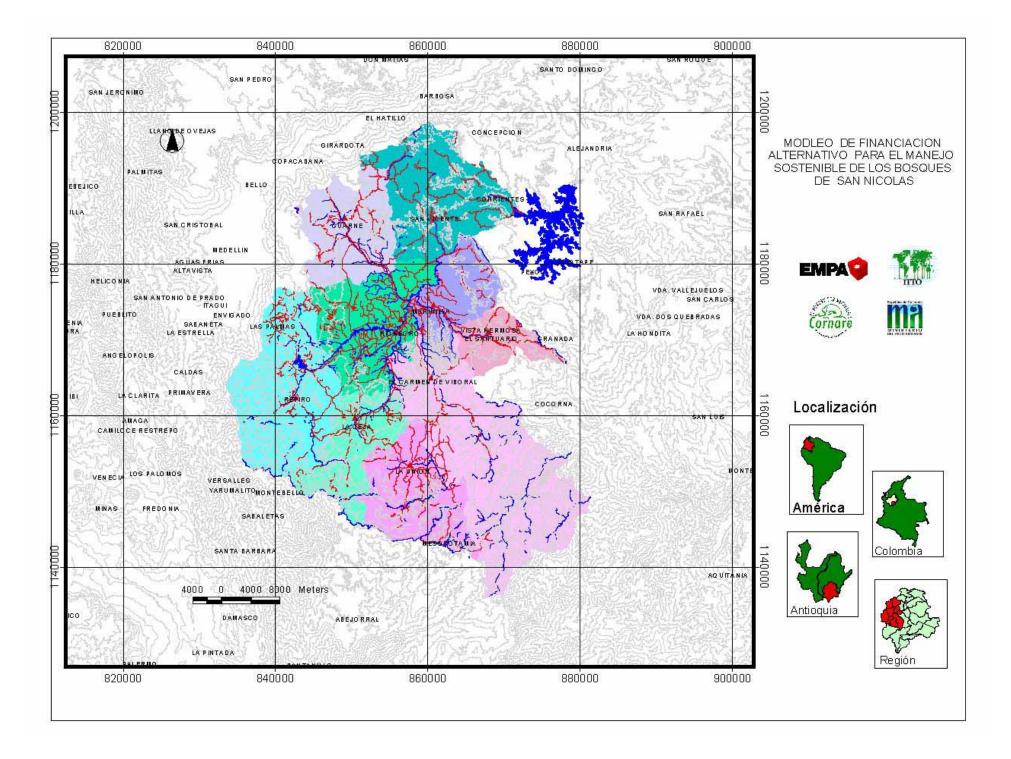
Alternative Financing Model for Sustainable Management in the San Nicolas Forests

Colombia

CARMENZA ROBLEDO Intercooperation/EMPA



30.000 ha declared for conservation

More than 10.000 families

90% Private owned, mostly small farmers

42.000 ha as "forests apt"

Project partners Design phase (22 months)

Autonomous Regional Corporation for the Rionegro - Nare Region (CORNARE)

Swiss Federal Laboratories for Material Testing and Research (EMPA)

International Tropical Timber Organization (ITTO): Funding agency

Intercooperation: Technical backstopping on behalf of seco

Seco: Mayor donor



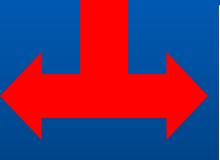




Project rationale

Test a methodology for the Financing of long-term Sustainable Management of Forests (SMF)

Knowledge and Technologies for the Sustainable Management of Forests (SMF)



CDM (reforestation y afforestation)

National and international investors in SMF

Participative decision making process

Social Component

During the design phase

- Through a Regional Forum (including public and private sectors, civil society)
 Information and capacity building
 - Exchange and formulation of project activities
 - Decision Making (through concertation)

During the implementation

Monitoring and Verification Plan
 Definition of social and environmental C&I

Project results

- Management Plan for the region
 CDM component (reforestation)
 Non-CDM component (forest conservation and forest rehabilitation)
- Investment and Financing Plan
- Promotion of social and institutional alliances to facilitate implementation of the management plan

Project outputs

- Creation of the San Nicolas Forests Corporation
- Financial instruments and trust fund
- Forests inventory and forest management plan
- Socio-economic characterization
- CDM documentation: PDD, Carbon quantification study, MVP
- Risk management strategy
- Market analysis for timber and NTFP
- Training and participation of the local community

Financial Instruments for Environmental Services Payments

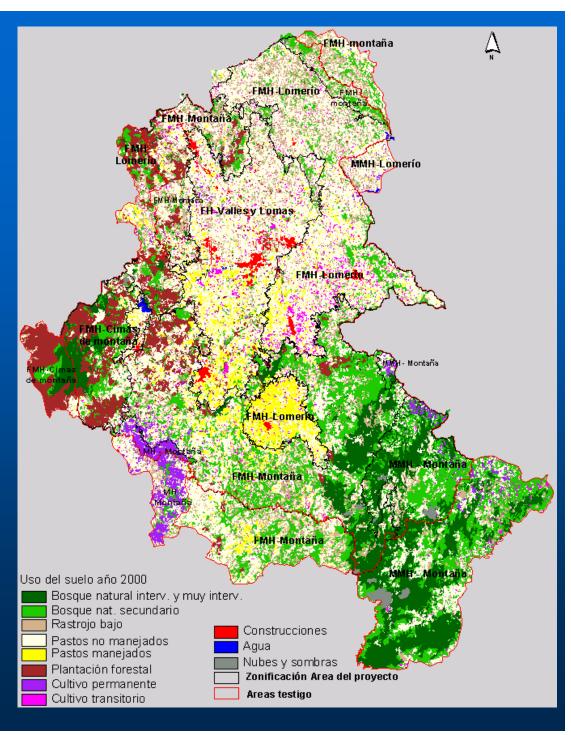
Certified Emission Reductions (CER) Kyoto eligible
 Verified Emission Reductions (VER) Kyoto non-eligible
 Environmental shares (ES) Other environmental services
 Environmental and Social Recognition (ESR) Corporate PR

Managed by the legally installed Corporation that incorporates GOs (municipalities and the department), enterpreneurs, NGOs and the land-owners

Establishment of a trust fund

Kyoto eligible land

Secondary bushes
Pastures
Managed pastures
Permanent crops
Annual crops



Current land use (baseline)

- Highland zone
 - Extensively managed pastures
 - Intensively managed pastures (seeded and fertilized)
 - Croplands (permanent and annual)



- Lowland zone
 - Extensively managed pastures
 - Croplands
 (permanent and annual)



CDM eligible project activities

1 Silvopastoril system Alnus acuminata + Persea americana

6 Forest plantation systems Alnus acuminata, Persea americana, Guadua angustifolia, Pinus tecunumannii, Pinus ocarpa, Acacia mearnsii, and others

6 Agroforesty systems

Various combinations including timber, citrus and other fruit trees, platano, corn, beans, yuca, coffee, sugar cane, etc. Actvities non-eligible for CDM (Voluntary markets)

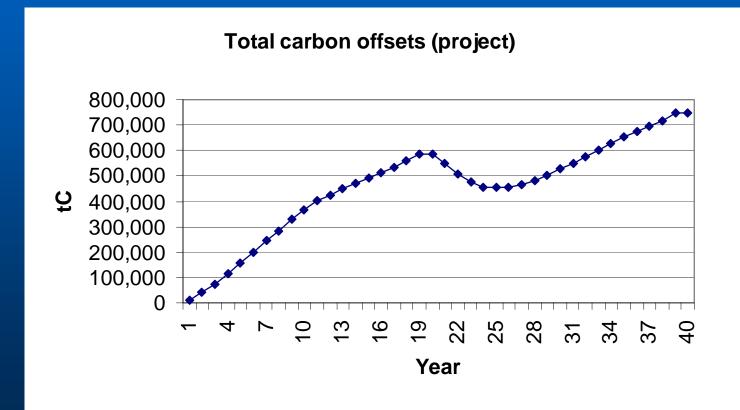
Rehabilitation of degraded forests with native species

Forest conservation activites

 Harvesting and processing of NTFP and selected timber products

Carbon quantification

Overall result



Results of the Financial modelling

Accounting method	# CER	# VER	Price	Price	Price	CER+		Comments
			CER	VER	AMA		AMA	
Stock change; crediting period 21 y	1'368'133	1'118'862	5.30	2.00	1.50	6.80	3.50	
Stock change; project life-time	1'621'495	1'118'862	6.04	2.00	1.50	7.54	3.50	Price higher than for the 21 yr crediting period due to a reduction of the stocks from year 20 onwards, caused by harvesting of timber
Average storage; 40 yrs	930'332	1'118'862	8.36	2.00	1.50	9.86	3.50	
Temporary credits (issued every 5 yrs, unlimited validity); 40 yrs	1'621'495	1'118'862	6.87	2.00	1.50	8.37	3.50	Huge financing gaps, money must be borrowed, Assumed interest rate: 8%
Temporary credits (issued yearly after 5 yrs, valid for 5 yrs); 40 yrs; average storage	1'566'679	1'118'862	7.20	2.00	1.50	8.70	3.50	Huge financing gaps, money must be borrowed, Assumed interest rate: 8%

Project risks, uncertainities and responsabilities

Analyzed risks

 Policy, market, technical, internal risks, country risks

Proposed management strategies

- Good practices within the project (social and forests practices)
- Transparency and accurancy
- Financial
 - Buffer on CER (15%)
 - Replanting fund (2% of project costs)
 - Contingencies (5% of project costs)

Monitoring and Verification Plan

- Aimed to be transparent, accurate and participative
- Includes CDM and non-CDM eligible activities
- Includes a set C&I on environmental and socio-economic impacts designed with the community
- Includes leakages and other GHG emissions
- Make possible the verification of the calculations for the C modelling
- Define activities for quality control

Looking ahead

- CDM Project validation and registration (?)
- Promotion of the financial instruments
 - BioCarbon fund (already submitted)
 - National and international investors interested in voluntary markets and/or CDM markets
- Second phase of the ITTO project with emphasis on the rehabilitation and forest conservation on non-Kioto land: 2004-2006

