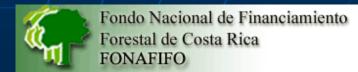


Government of Costa Rica Ministry of Environment and Energy National Forestry Financing Fund

The Environmental Services Payment Program: A success story of sustainable development implementation in Costa Rica

By: Carlos Manuel Rodríguez Minister of Environment and Energy



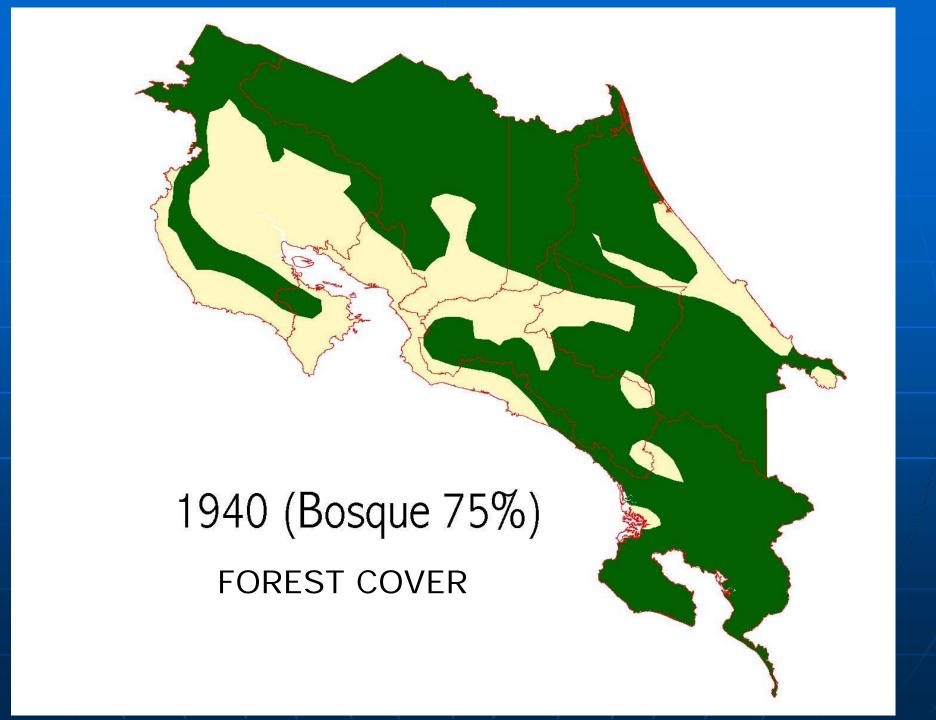


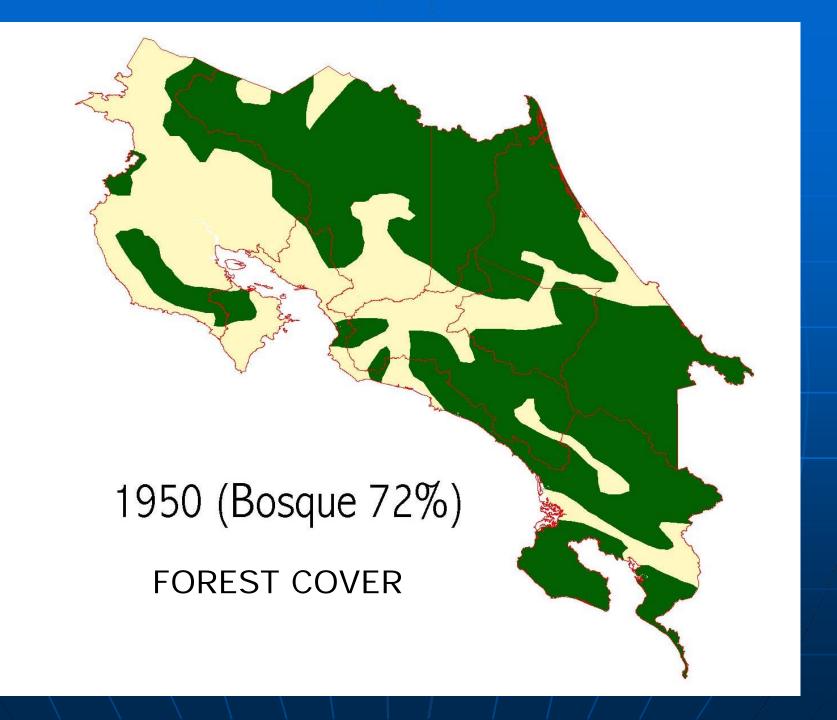
Features

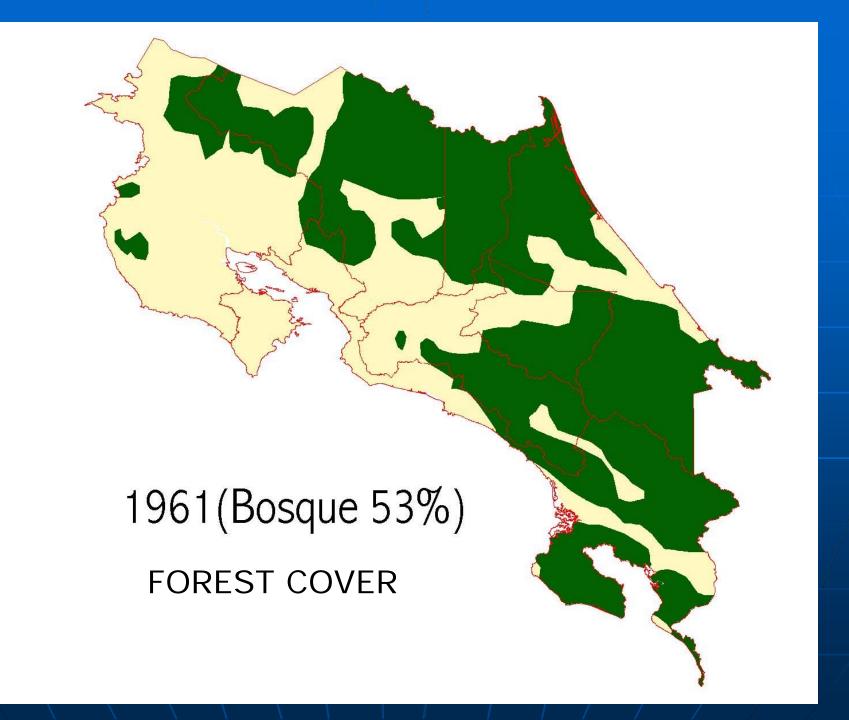
- Area: 51,100 Km2
- Population: 4,4 millions
- High human development index (ranked 45 by UNDP)
- Medium Income country (GP = \$4.180 per capita in 2004)
- 70 % of national lands are of forest capacity
- 26 % of the territory is protected by different management categories (National Parks, wildlife refuges, Forest Reserves)
- 9 % of private lands are under protection by ESP
- Tourism is currently the main income source
- Forest plantations and industrial related activities are privately managed.
- No forest concessions are allowed

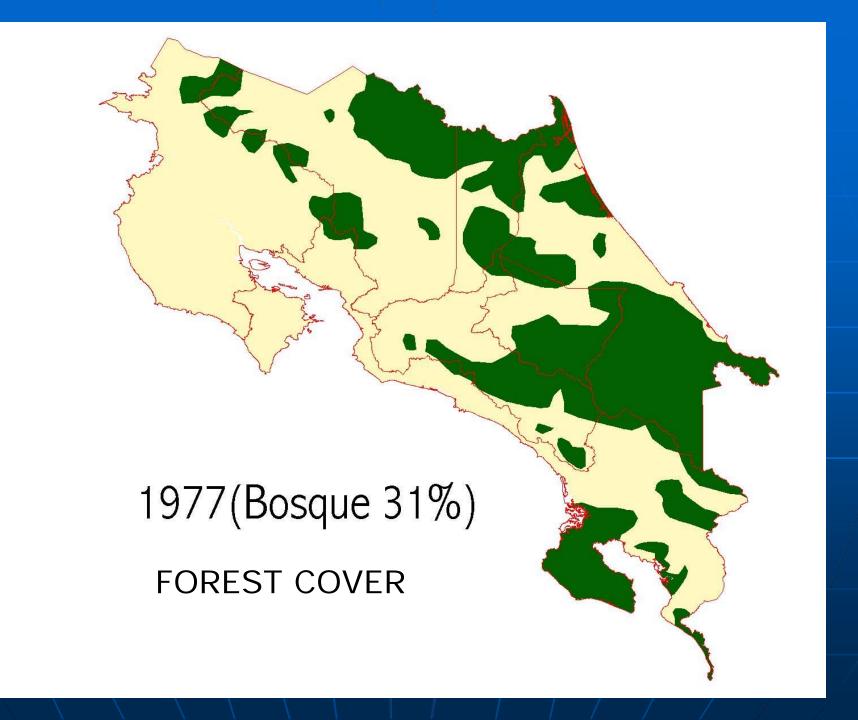
A forestry-oriented country

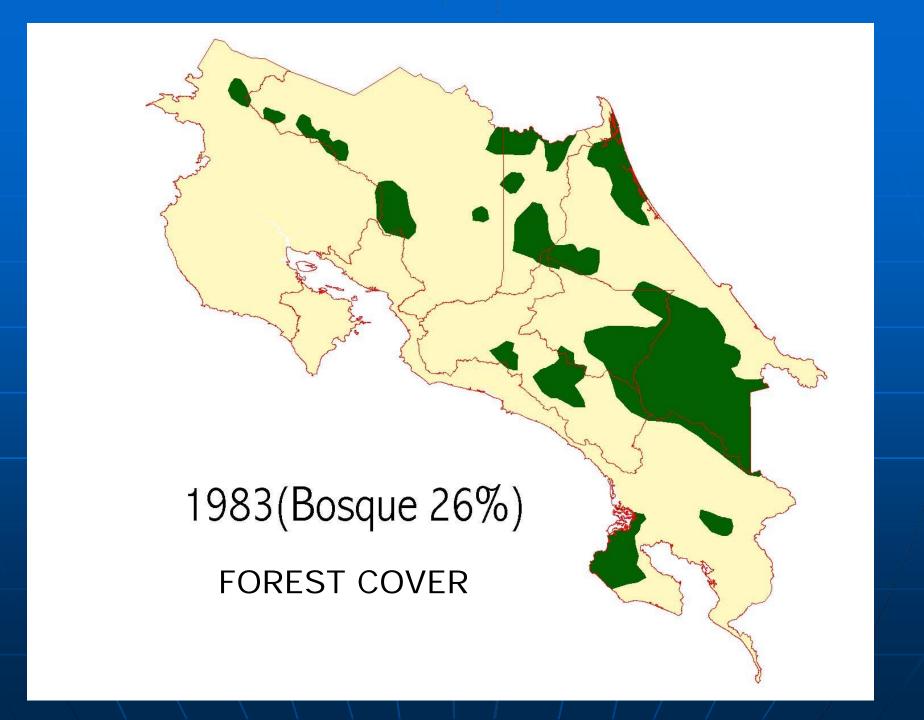
- According to the land-use capacity 2/3 of the national territory should be forest covered.
- By the end of the 70's some research studies showed national forestry reality (Silvander-1977 y Pérez y Protti-1978)
- ✓ The annual rate of deforestation was of 55.000 Ha/year.
- Less than 1/3 of the national territory was the remaining forest (31,1 %)
- Historically, Costa Rica has been generating financial mechanisms for the forestry sector
- ✓ In 1979 the first forestry incentive was established
- ✓ In 1979 the First National Forest Development Plan was developed

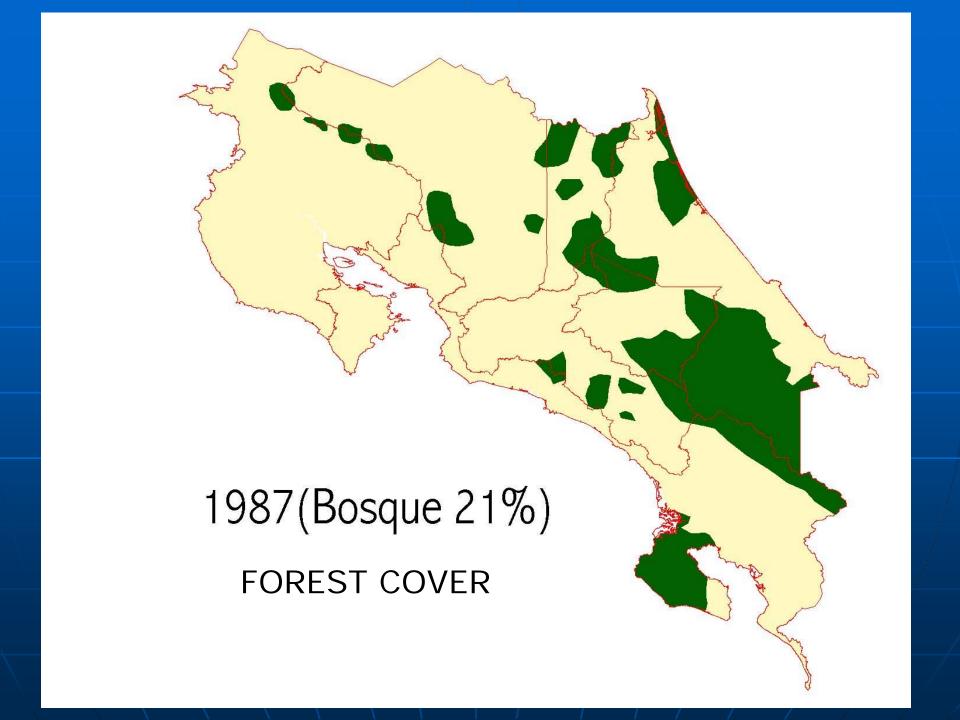




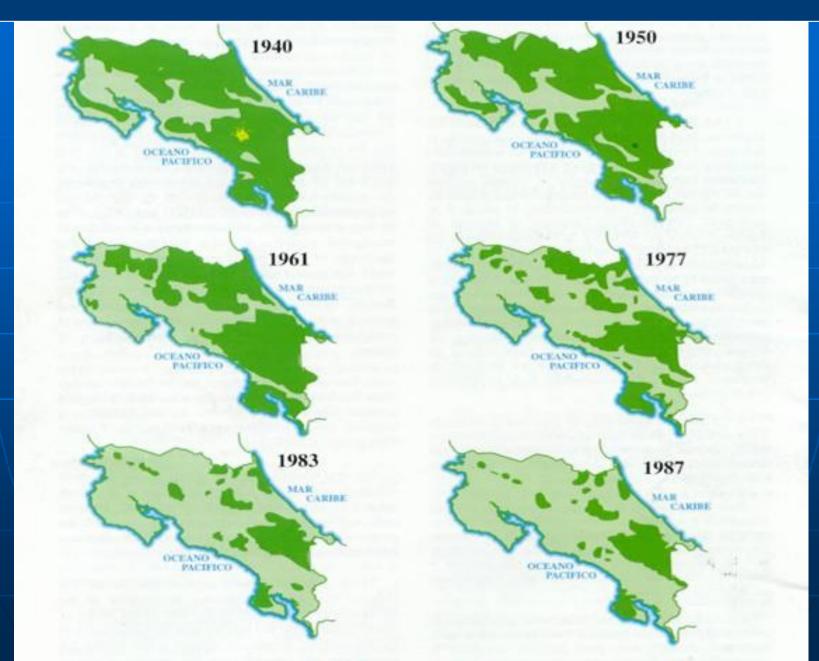








Evolution of forest cover 1940 - 1987



1995-1998 New legal and institutional framework for sustainable development policy

- 1995 General Environmental Law enacted
- 1996 New Forestry Law
- 1998 Biodiversity Law
- Sustainable development becomes a national goal by Law (Art. 50 National Constitution and Environmental law)
- Creation of the National System of Protected Areas to enhance integrated management of natural resources.
- Abolition of the change of use of forested lands
- FONAFIFO legally consolidated
- The Forest National Office was created as a dialogue mechanism among the private and public forest stakeholders
- > Transformation of incentives into Environmental Services Payment as the main financial mechanism to promote forest protection and sustainable use
- Creation of a funding source for ESP (tax on fuels)

Environmental Services Payment Program: Legal framework

The Forestry Law states

" Forests, forest plantations and other ecosystems provide essential services to the people and economic activities, at the local, national and global levels".

Protection of water resources for different uses

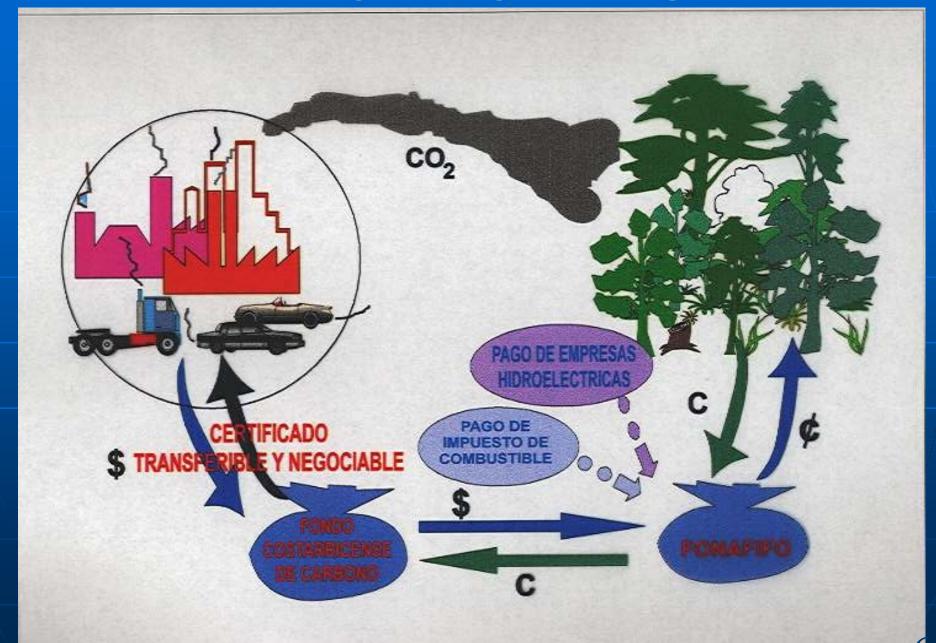
Mitigation of greenhouse effect gases and carbon fixation

Protection of biodiversity

Landscape/scenic beauty

Payment for environmental services is the mechanism implemented to pay the owners of land by the above mentioned services provided to the society

RATIONALE OF THE ESPP



Ecomarket Project goals/targets

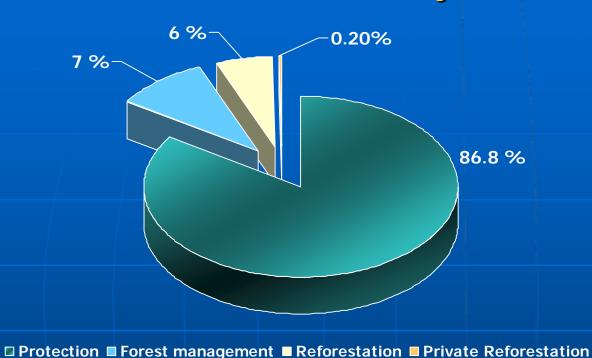
- Payments for contracted projects (+200.000 Has)
- Increase volume of existing contracts in 100.000 Has
- Increase by 30% participation of women in ESP
- Increase by 100% participation of indigenous peoples
- Strengthen FONAFIFO and SINAC institutional capacities

Ecomarkets project

Need to increase forest conservation and forest cover recovering by enhancing the development of private markets for environmental services provided by forests such as biodiversity protection, greenhouse emissions reduction and water resources protection.

Source of funding	\$ US
BIRF 4557-CR	32,630,000
GEF 23681-CR	8,000,000
PJN 50508	302,250
Government	8,500,000
TOTAL	49,432,250

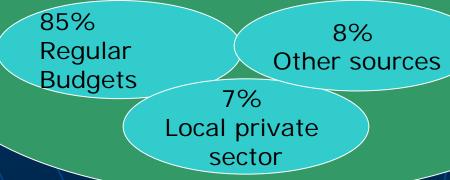
463.000 Has covered by ESP during 1997 - 2004



"As scientific understanding of ecological services improves, new financial opportunities emerge"

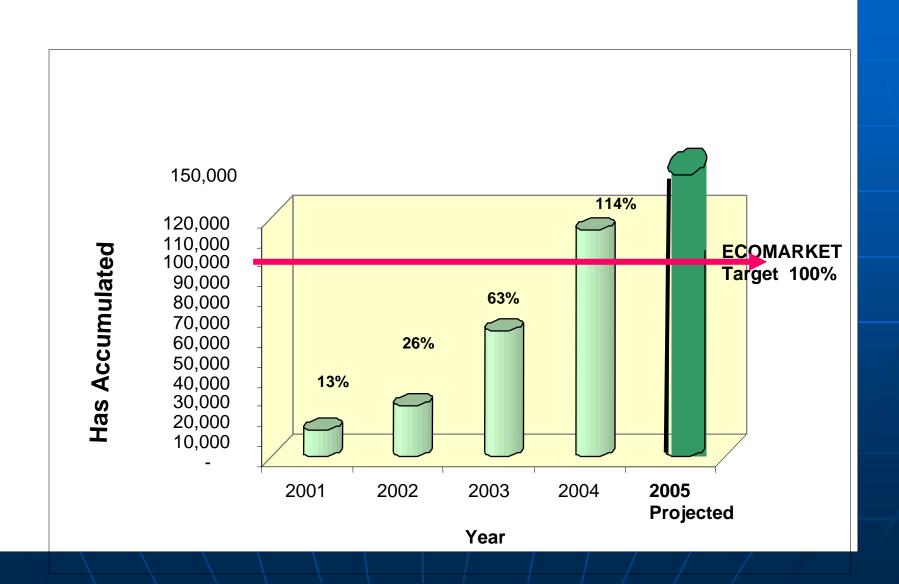
The Economist 04-05



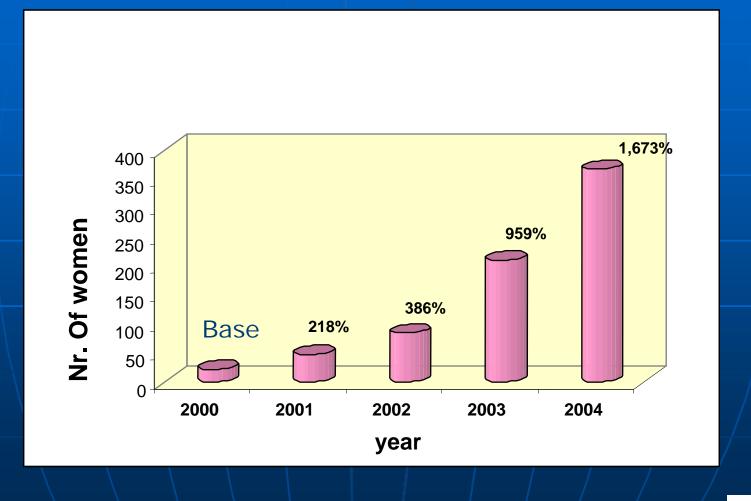




New Has protected by ESP

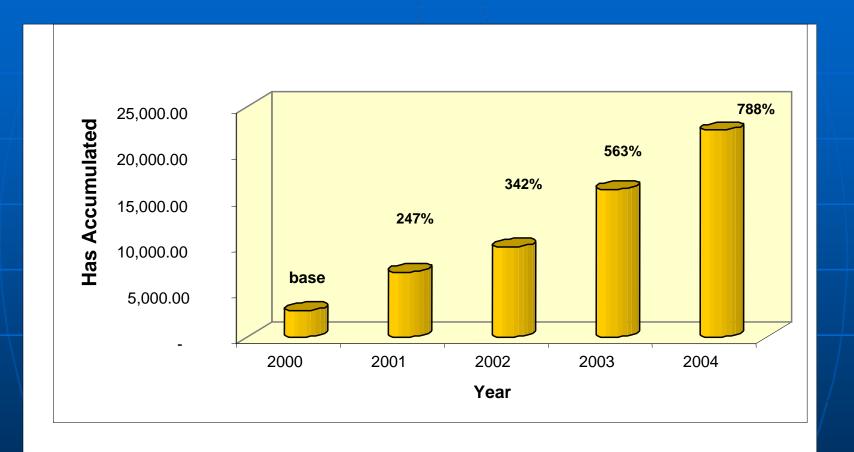


Participation of women





Participation of indigenous peoples



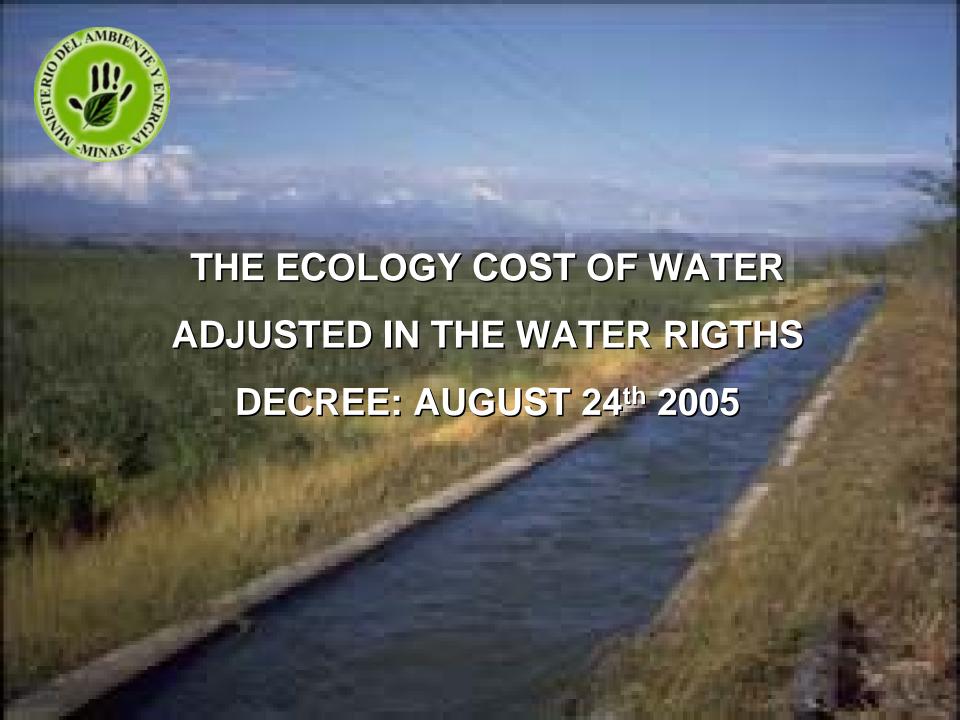












EVERY USER WILL PAY THE ECOLOGY COST OF WATER

Implementación en siete años Uso en Consumo Humano: 1,46 colones por metro cúbico anual

Negociación para la viabilidad política del la propuesta del canon Uso hidroeléctrico grande: 0,12 colones por metro cúbico anual en concesión

En la inversión están involucrados todos los actores públicos y privados

El uso acuícola: 0,12 colones por metro

Plan de incentivos para los sectores productivos

Uso comercial e industrial: 3,25 colones por metro cúbico anual de agua subterránea

Pago por el agua diferenciado por uso turístico 2,46 colones por metro



PRESIDENT'S EXECUTIVE ORDER 035-MINAE (Minister of Environment)

All Public Institutions who use public water rights for a public service, will financially recognize the ecological cost of water.

Actual Value of Water Rights Decree 26635-MINAE - Enero 1998

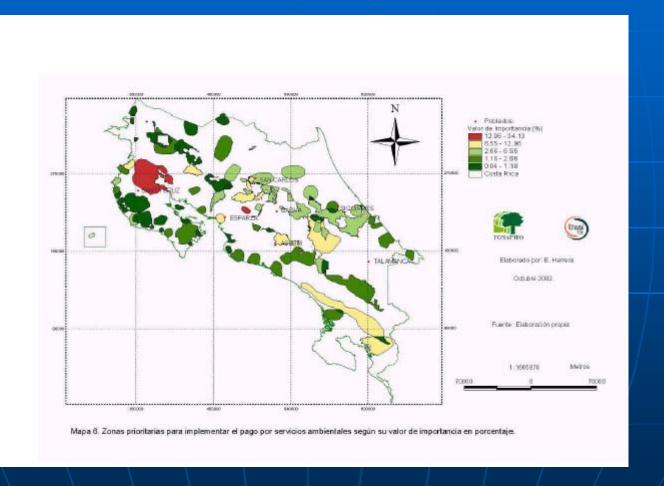
	Canon (colones por metro cúbico anual)			
Sector	Superficial		Subterráneo	
Doméstico	0.5177	(\$0.0010)	0.7187	(\$0.7187)
Poblacional	0.0088	(\$1.79592e-05)	0.0109	(\$0.0109)
Hidroeléctrico				
(fuerza hidráulica)	0.0001	(\$2.04082e-07)	NA	
Industrial	0.0252	(\$5.14286e-05)	0.1928	(\$0.1928)
Riego	0.0169	(\$3.44898e-05)	0.1304	(\$0.1304)
Otros usos	0.0075	(\$1.53061e-05)	0.3224	(\$0.3224)
Promedio	0.0007	(\$1.42857e-06)	0.1128	(\$0.1128)



Proposed values of water rigths

(1)	(2)		
Úso	Canon (colones por metro cúbico anual)		
	Agua Superficial	Agua Subterránea	
Consumo Humano	1.46 (\$0.002979)	1.63 (\$0.00332)	
Industrial	2.64 (\$0.005387)	3.25 (\$0.00663)	
Comercial	2.64 (\$0.005387)	3.25 (\$0.00663)	
Agroindustrial	1.90 (\$0.003877)	2.47 (\$0.00504)	
Turismo	2.64 (\$0.005387)	3.25 (\$0.00663)	
Agropecuaria	1.29 (\$0.002632)	1.40 (\$0.00285)	
Acuicultura	0.12 (\$0.000244)	0.16 (\$0.00032)	
Fuerza Hidráulica	0.12 (\$0.000244)	-	

Need to invest in areas of importance for water conservation



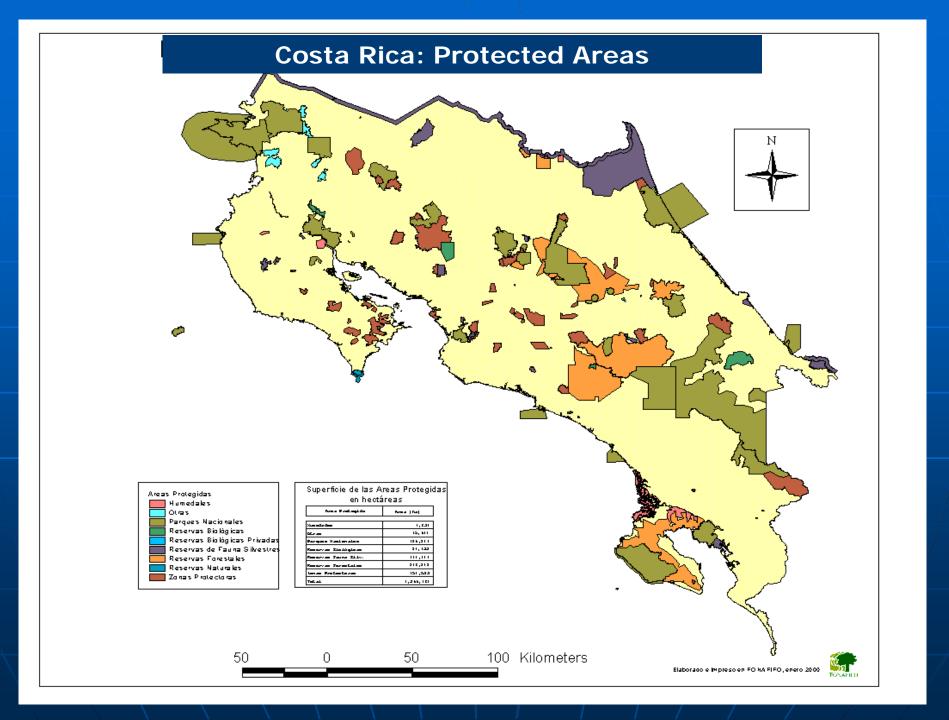






Need to invest inrestauration an good uses of land for water conservation





RESULTS 2002

	P.N. Chirripó	P.N. Cahuita	P.N. Volcán Poás
TOTAL	\$609.000	\$4.900.000	\$23.400.000
Nacional	46%	64%	59%
Regional	28%	3%	24%
Local	26%	33%	17%

APORTES ECONÓMICOS DE LOS PARQUES NACIONALES Y RESERVAS BIOLÓGICAS 2002

Total: \$834,6 millones

- Turismo Nacional (87,48%): Hospedaje, transporte, alimentación, culturales
- Generación de electricidad (10,45%):
 Aproximación mediante SIG a las plantas cercanas a los P.N. y R.B.
- Fondos para Conservación de ASP (1,10%)
- Otros (0,97%): Fondos para la investigación, visitación, empleo, PSA, compra de tierras.

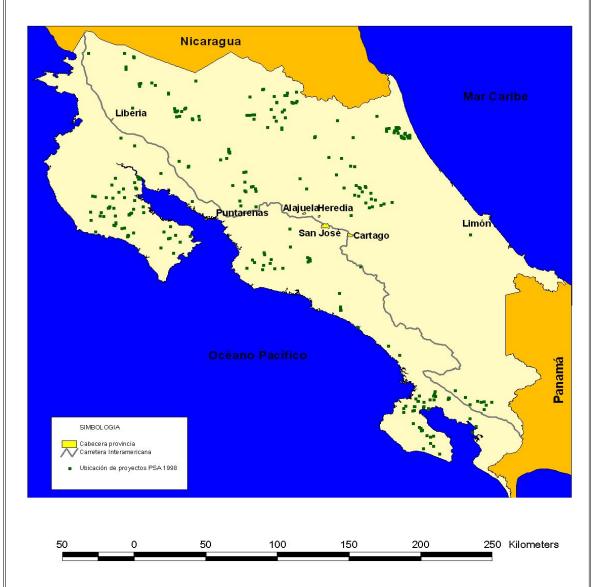
APORTE DE LOS P.N. Y R.B. AL PRODUCTO INTERNO BRUTO 2002

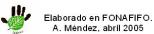
	%
Aporte de los P.N. y R.B.	5,5

Agricultura, 7,7 silvicultura y pesca

PRIORITY AREAS FOR THE PROGRAM (Ecosystem approach) PUE TO VIE JO LIMON 100 Miles 50

Costa Rica Ubicación de proyectos PSA 1998



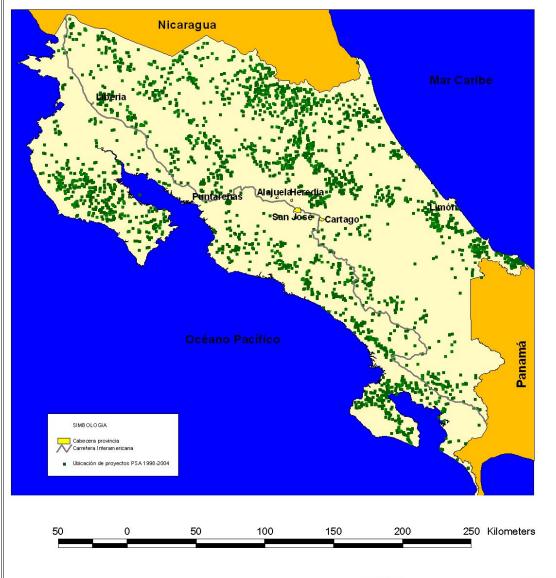


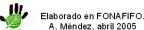


ESP Project Investments

ESP Projects Investments

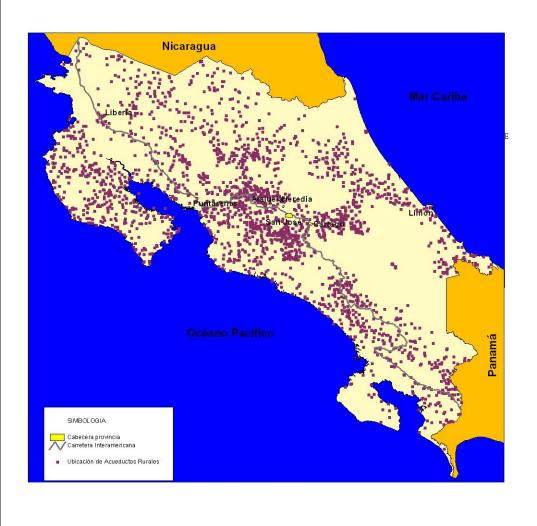
Costa Rica. Ubicación de proyectos PSA 1998-2004





Rural water Supply system

Costa Rica. Ubicación de Acueductos Rurales





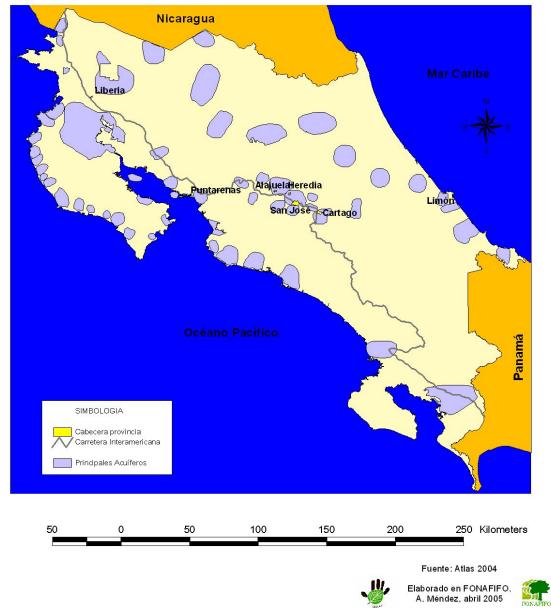
Fuente: Atlas 2004



Elaborado en FONAFIFO. A. Méndez, abril 2005



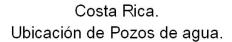
Costa Rica. Ubicación de Principales Acuíferos

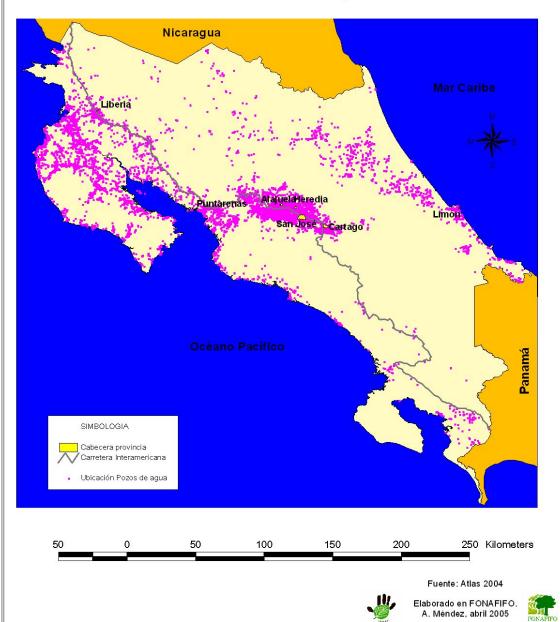




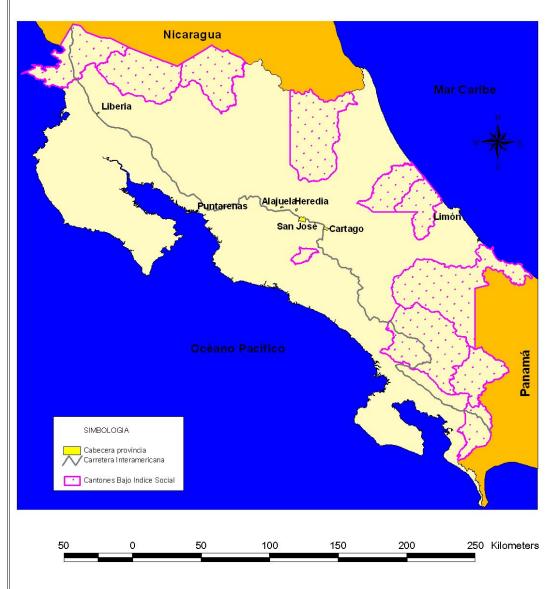
Watersheds

Water Catchments

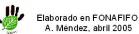




Costa Rica, Mapa Prioridades PSA Protección, 2005 Cantones con Indice de Desarrollo Social inferior a 40%



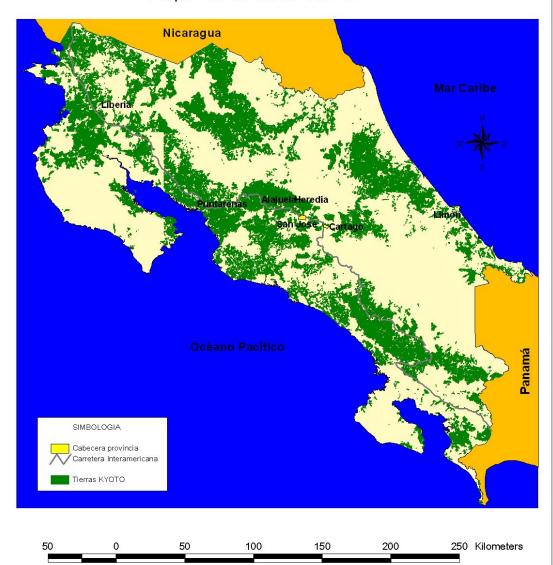
Low Social
Development Index
Populations
(Less than 40%)





Lands with potential for The development of CDM Projects (Kyoto Lands)

Costa Rica. Propuesta de Tierras KYOTO

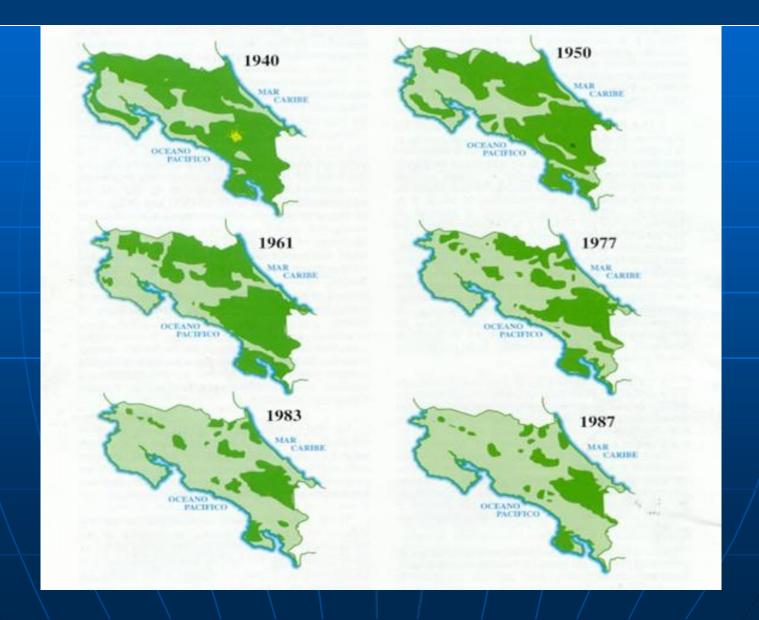


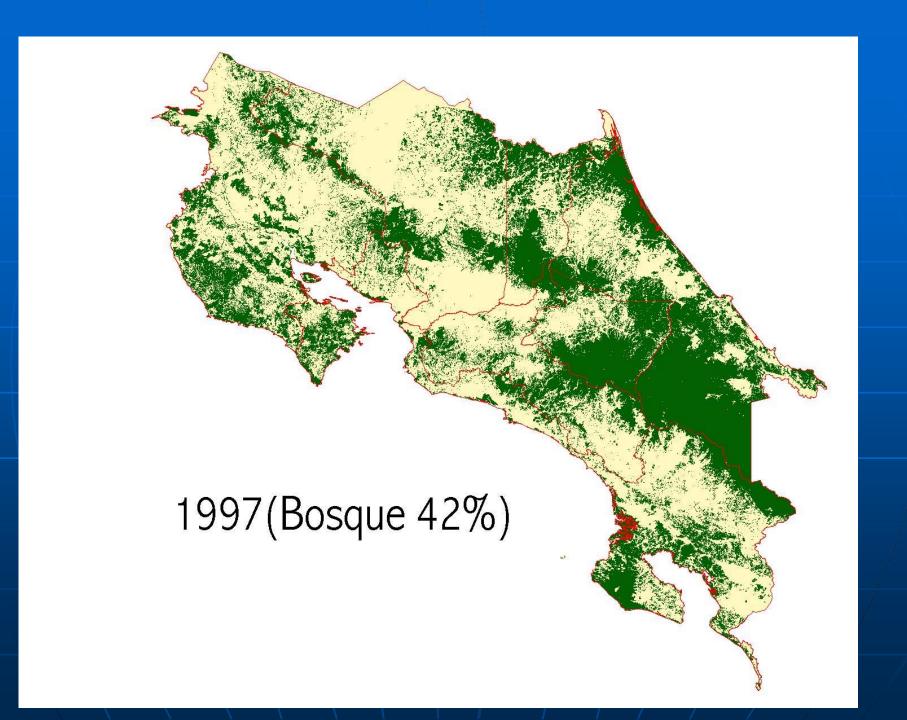


Elaborado en FONAFIFO. A. Méndez, abril 2005



Evolution of forest cover 1940 - 1987

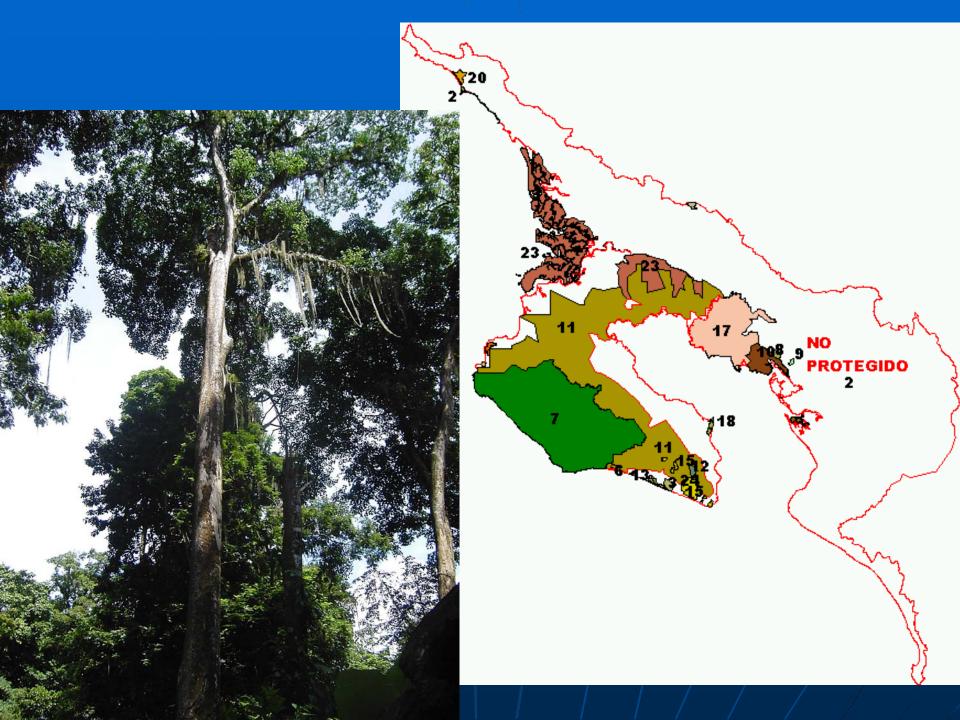




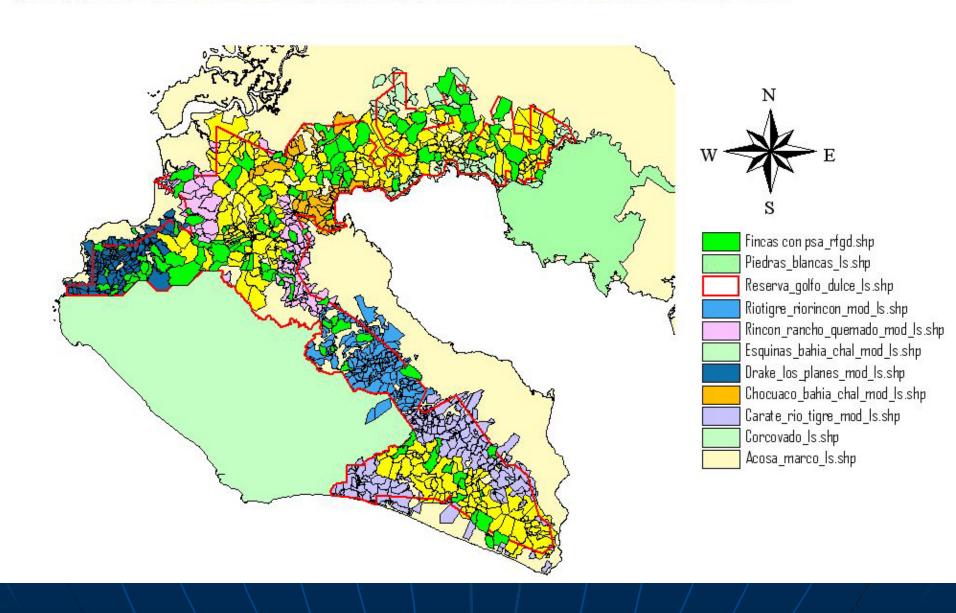
Forest Cover 2000 45%



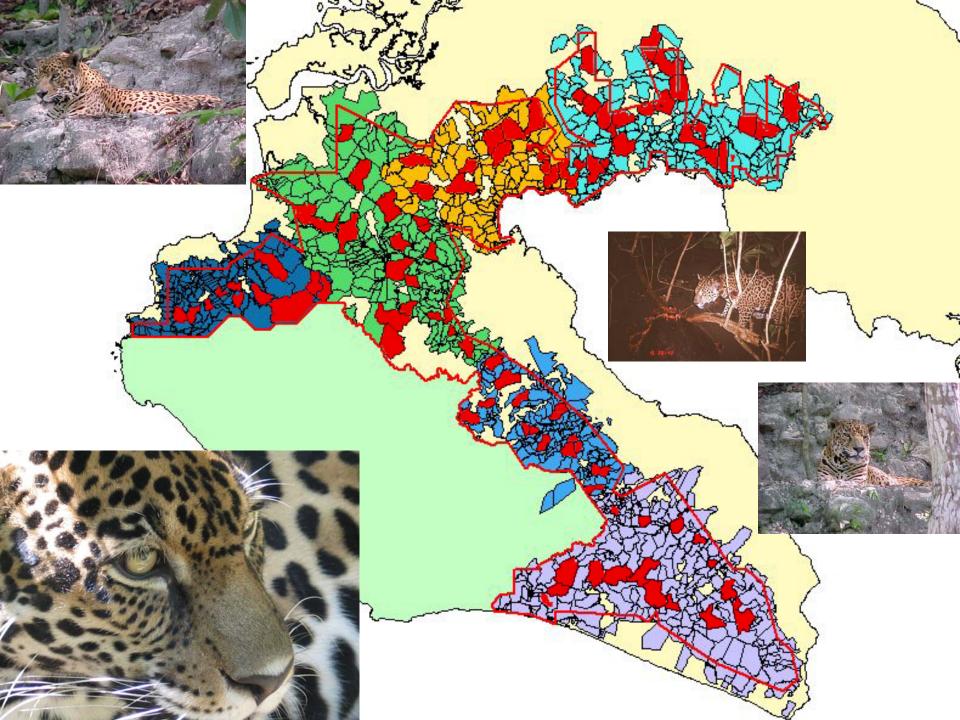




CONECTIVIDAD CON FINCAS PAGO SERVICIOS AMBIENTALES RESERVA FORESTAL GOLFO DULCE







Need for Scaling Up and Mainstreaming Environmental Services Payment Program in Costa Rica

The second generation of Environmental Services Payment

The ESPP have resulted in significant local, national and global benefits including:

- (i) income generation to the rural poor
- (ii) improvement of watersheds
- (iii) contribution to carbon sequestration
- (iv) conservation of biodiversity
- (v) Other indirect benefits such as improved public health and infrastructure, increased demand for technical assistance for ESSP implementation

Key objectives - of the proposed project

- Fulfillment of the Millennium Development Goals (High level Political commitment)
- Increase the range of sources of funding for ESP activities aimed at local and global services (PARTNERSHIPS)
- Extend the scope of ESP activities to include degraded and fragile lands, water protection related forests and improve the efficiency of current activities
- Increase the contribution of ESP activities to poverty reduction
- Contribute to the international policy dialogue by promoting new financial mechanisms for sustainable development

• The project will support Costa Rican efforts to develop and implement a system of water charges, which is expected to become one of the major financing sources for the ESP.





• Use of carbon credits generated through the sequestration of carbon due to project-induced change in land use (an approach that has particular promise in financing reforestation in degraded areas)

The project will target ESP activities to areas of high density or incidence of poverty, and will study new ways to reduce poverty in rural areas



"If governments invest seriously in green data acquisition and Coordination, they will no longer be flying blind" The Economist

Criteria for Project Investments

Costa Rica Mapa Prioridades PSA Protección, 2005

