Market-Based Innovations for Environment Conservation in Brazil

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BRAZILIAN AMAZONIA

- \cong 5M Km² > Western Europe
- \cong 4M Km² Tropical Forest
- \cong 20M People \cong Sweden + Norway + Finland + Denmark
- $\approx 15 20\%$ of the world biodiversity
- \cong 12% of all the planet fresh water stock

BRAZILIAN AMAZONIA

Comand & Control

\cong 600K Km² deforested = > France \cong 17K Km² every year \cong ¹/₂ Belgium

BRAZIL

- Solution: Incentive Based Regulation
 - Amplifying the role of economic instruments in public policies
 - Promoting participatory instruments
 - involving groups in the civil society
 - ... Changing the incentives that drive micro-level behaviors

BRAZIL

Initiatives

- "RPPN" PRIVATE NATURAL HERITAGE RESERVE
- "ICMS ECOLÓGICO" ECOLOGICAL VALUE-ADDED TAX
- LEGAL RESERVE TRADEBLE RIGHTS
- CERTIFIED FOREST PRODUCTS BUYERS GROUP
 OTHERS

"RPPN" Private Natural Heritage Reserve

- Law 1.922, June 5th 1996
 - basis: personal desire to preserve
- Private area
- Specially protected, by the initiative of its owner
- Recognized by the Government
- Considered relevant due to its biodiversity, scenic aspect, or to its environmental characteristics

"RPPN" Private Natural Heritage Reserve

Objective:

• To protect the environmental resources in the region

Characteristics:

- They are forever, meaning FOREVER
- Only allowed the development of scientific, cultural, educational, and recreational activities

Obligations:

- Guarantee the maintenance of the env´tal attributes of the area
- Submit the zoning and the utilization plan for approvement
- Report annually the RPPN status and activities developed

"RPPN" Private Natural Heritage Reserve

- Advantages:
 - Rural Territory Tax Exemption
 - Priority in the analysis to resources to projects at the National Environmental Fund
 - Preferences in credit analysis for agriculture activities
- Results:
 - > 100 RPPN's created Brazilwide
 - > 250K hectares of protected area

- 25% of ICMS (tax on sale of goods and services) in Brazil is reallocated to local government - each state may determine redistribution criteria
- "Ecological" criterion adopted in 1990 (Paraná)
- Now operative in 6 states (PR, SP, MG, RO, RS e MS)
- Legislation under discussion in other states

- Acts as a fiscal compensation mechanism: the "Protector-Receives" principle
- Encourage municipalities to support the creation of conservation areas and to adopt sustainable development policies
- Rewards municipalities that have protected areas on their territory and thus cannot carry out traditional economic activities

• Criteria:

- <u>**Territorial Restriction**</u> = Protected Area / Total municipal area
- <u>Conservation Factor</u> = Level of Protection (weighting based on management categories)
- **Quality Factor** = Physical and Biological quality of area, water resources, implementation and management plan, articulation with the community, monitoring...
- Amount received = % Total ICMS x Territorial Restriction x Conservation Factor x Quality Factor

• Results:

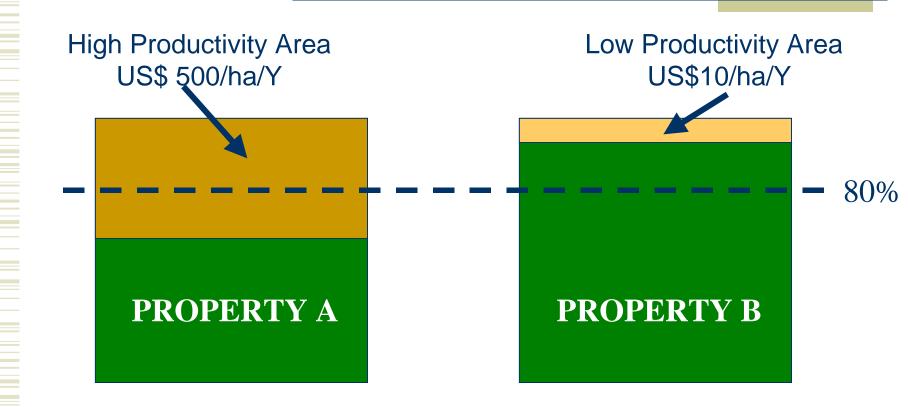
- Increase in the # and size of protected areas and recuperation of degraded forestlands
- Improvement in the quality of conservation: local infrastructure and services (electrification, roads, water..)
- Public dissemination of the debate
 - Introduction of a municipal environmental agenda
 - Institutional improvement of the use of economic instruments for environmental regulation
- Promoting fiscal justice
- Incentive to eco- and rural-tourism

- Paraná:
 - 2,5% to Conservation + 2,5% headwaters
 - Total protected area increased 143%, or 1,133,176 additional hectares (1992-99)
 - Many private landowners have committed forestlands to permanent easements (RPPN)
 - R\$ 42M transferred = US\$20M

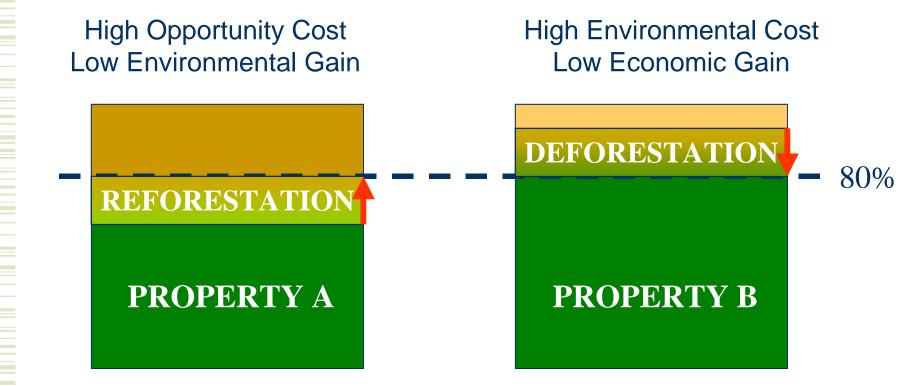
- São Paulo:
 - 0,5% to Conservation
 - 152 municipalities (1999) = 24% of Total
 - Ribeira do Iguape Region = 23 municipalities
 - Amount received is greater than the fiscal value added transfered
 - R\$ 27M transferred = US\$12M

- Minas Gerais
 - 0,5% to Conservation + 0,5% to Garbage and Sewage Treatment
 - # of conservation units nearly doubled
 - Protected areas increased 48%, totaling an additional 551,591 hectares (1995-98)
 - Total allocated (1995-98): US\$ 25M
 - 174 municipalities (1998)
 - Conservation became the "principal industry" in some municipalities

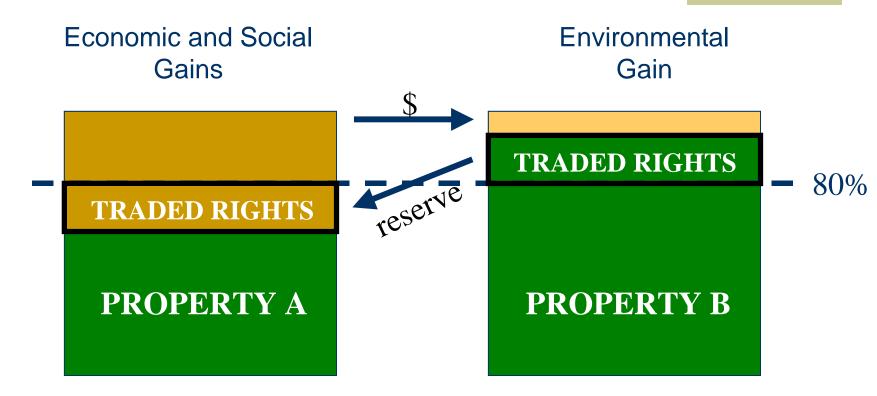
LEGAL RESERVE TRADEBLE RIGHTS SCHEME



WHITOUT LEGAL RESERVE TRADEBLE RIGHTS



WHIT LEGAL RESERVE TRADEBLE RIGHTS



CERTIFIED FOREST PRODUCTS BUYERS GROUP



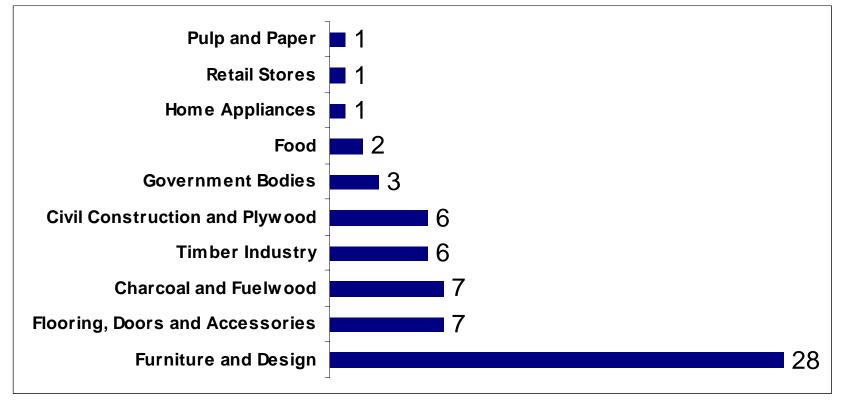
Compradores de Produtos Florestais Certificados

- NGO Initiative Friends of the Earth Brazilian Amazonia
 - Funded in April, 2000 with 33 companies as "Certified Timber Buyers Group"
 - Became "Certified Forest Products Buyers Group" in February, 2001
 - Now, has 62 companies, 2 State Gov´ts (Acre and Amapá), and 1 municipality (Guarujá)
 - First Group in a Developing Country (17 in the World)

CERTIFIED FOREST PRODUCTS BUYERS GROUP



Compradores de Produtos Florestais Certificados



CERTIFIED FOREST PRODUCTS BUYERS GROUP



Compradores de Produtos Florestais Certificados

• Commitments:

- For those who buy native forest products
 - 50% of its total consumption has to be certified till 2005
- For those who buy reforested timber
 - 100% of its total consumption has to be certified till till 2005
- Group Total Potential Consumption
 - 1M m³ of Certified Timber

OTHERS

- "Pro-Ambiente" Pro-Environment Fund
- Watershed Consortiums
- "Reforestation Associations"
- Carbon Sequestration
 - PR, TO, and MT
 - Plantar Project Charcoal to the Pig-Iron Industry – Approved at PCF