

KATOOMBA IV

Capturing the value of ecosystem services

"Investing for profit in Latin American Biodiversity"

Environment Funds (in Millions)

- ☐ Biodiversity (Terra Capital): US\$ 15
- ☐ Sustainable Forestry: US\$ 115
- ☐ Amazon Permanent Fund: US\$ 150



☐ Carbon: US\$ 3-5





Biodiversity Sectors

- Organic agriculture
- Native species aquaculture
- Reforestation and aforestation
- Old growth forest management
- Non timber forest products
- Nature tourism





Projects Location



: Old Growth

: Planted

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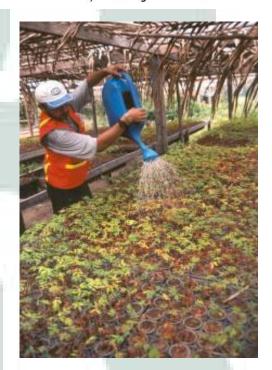
: Biodiversity



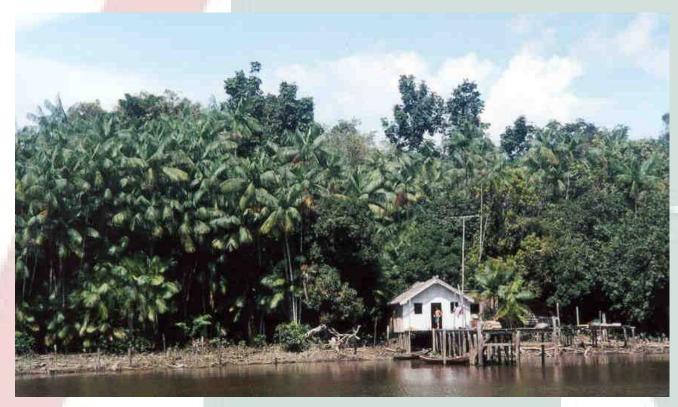
Instituto Brasileiro de Educação em Negócios Sustentáveis

- Training managers in "green" business
- "Greening" academic programs
- Field schools: forestry and organic
- Reducing the "digital divide"
- Green management trainee program
- Leadership identification

www.ibens.org



Muaná Alimentos, Marajó, Pará (Assai heart of palm and pulp)



Investment: US\$1.5 MM

IRR (e): 26.6%





NTFP Amazonian Heart of Palm - Marajó





1999 – 5th company in the sector

Sept 2000 – FSC Certification

2001 – 1st company in the sector (5% of market)





Muanã Amazon community Development Program

- □ Social impact: 7 municipalities= 52'000 people
- □ Direct 3d party suppliers:

Lisboa	11	families

- Recreio 13 families
- Bom Jesus 12 families
- São Sebastião 11 families
- Mariai 9 families

Sustainable (FSC?)

Harvesting of Assai Fruit &

Hearts of Palm

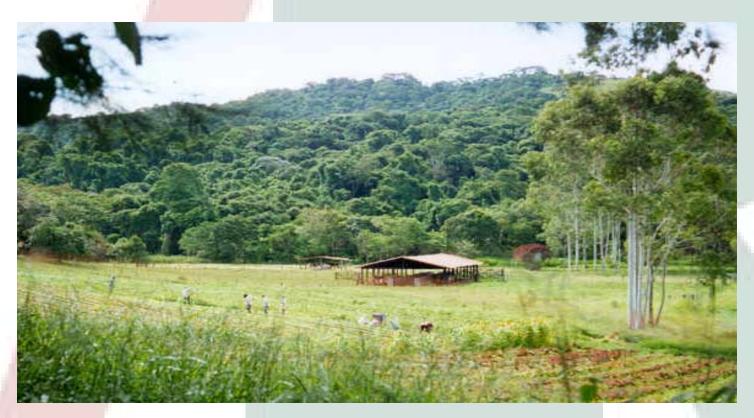
□ IBENS/CDI-Citizenship school (300 students/year)





FSO-FAZENDA SANTO ONOFRE Ltda

(organic vegetables, salads, spices)



Investment: US\$ 800,000

IRR (e): 24.8%







FSO Ltda, Morungaba São Paulo, Brazil



- AAO Organic Certified
- Yearly sales: + 170% (in one year)
- 16 new 3rd party suppliers
- IBENS Technical School
- IBENS/ CDI Computer and Citizenship School
- Future: Franchising?







FSO Ltda: Community Impacts

- ✓ From 80 to 150 new permanent jobs
- ✓ 16 new 3d party suppliers of organic produce
- ✓ New permanent in house training structure:
 - 5 technicians
 - 1 agronomic engineer
- ✓ + 54 Organic agriculture technicians (2001)
- ✓ IBENS/CDI-citizenship school (120/year)







1st FSC Certified Tropical Plywood Producer



Certified area: 37,410 ha

Total Forest Reserve: 220,000 ha





Tropical humid old growth sustainable forestry



- ✓ US\$ 15-35 MM Investment
- ✓ Horizon 25-50 years
- ✓ Plywood: 30'000 m3/year
- ✓ Sawnwood: 60'000 m3/year
- ✓ 800-1000 employees
- ✓ Forest reserve: 300'000 Ha
- ✓ Estimated ROE 14-20% (+ 50% with IPO)



Community impact

□ 3rd party log suppliers (40% of total):

• Precious Woods Amazonas 12,000 m³/year

• Valdenor 10,000 m³/year

• Rose 10,000 m³/year

• Togo 5,000 m³/year

• Toinho 5,000 m³/year

□ IBENS/CDI-Citizenship school (300/year)



Amazon babassu-nut traditional kernel oil extraction



Quebradeiras Average Yield: 6%

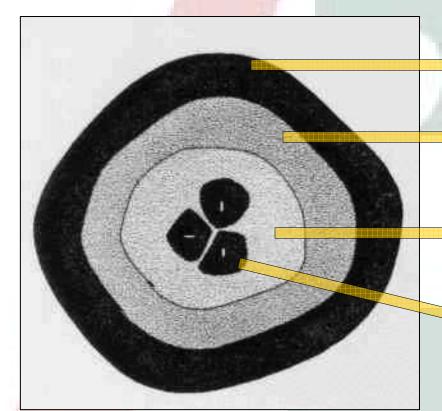




TOBASA, Tocantins Babassu Integral Utilization

Investment: US\$1.8 MM

IRR _(e): 29.7%



Epicarp (12%): Energy

Mesocarp (22%): Starch and Alcohol

Endocarp (50%): Activated Charcoal

Kernel (6%):Oil and Amid

Total Yield: 90%





Forestry based green business "in the works"

- ✓ Forestry based improvement of Certified RIL
- ✓ Forestry based ecoturism (1-5 day expeditions)
- ✓ Forestry based NTFP extractivist harvesting
- ✓ Forestry based biomass thermal energy
- ✓ Forestry based park management silviculture
- ✓ Forestry based Carbon and watershed
- ✓ Forestry based bio-prospecting



"Green Biz" business obstacles

- **✓ NBR 1:** management, management, management,...
- ✓ Lack of working capital and mezzanine financing
- ✓ Survival through gov't subsidies, tax evasion
- ✓ Requires enormous patience and hand-holding
- ✓ Needs Business Plan guidance and funding
- ✓ Investment needs (unwelcome) monitoring
- ✓ Lack of field/technicians, lawyers, certifiers
- ✓ No market liquidity => difficult exits



"Green Biz" Business Rewards

- ✓ Competitive financial returns
- ✓ Promoting SMEs, diversifying risk
- ✓ Important poverty alleviation and social benefits
- ✓ Tangible positive Environmental Impacts
- ✓ Strong demonstration effects (benchmarking)
- ✓ Facilitator of Private/Public Sector Partnerships
- ✓ Personally rewarding for the Management team





São Paulo, Brazil

www.a2r.com.br