



Connection

Global X Local

Situation

GLOBAL WARMING - THE PLANET IS SICK

- Destruction of Ozone Layer/ Increasing of the global temperature
- Exhaustion of the potable water reservoirs
- Increasing of the hydric, atmospheric and soil pollution
- Enlargement of solid waste garbage
- Deforestation
- Erosion / Desertification / Exhaustion and degradation of cultivable soil
- Extinction of species from flora and fauna
- Dominating production and consuming patterns causes environmental devastation, reduction of natural features and massive extinction of species
- The injustice, a poverty, the nescience and the violent conflicts raise and cause huge suffering
 - ✓ 550 million firearms in the world (1 weapon for 12 people)
 - ✓ 370 richest people in the world receives more than 2,6 billion people each year
 - ✓ 500 multinationals control 25% of the world economic activities and 80% of technologic innovations

GLOBAL PROBLEMS







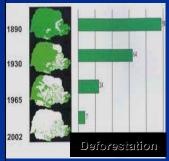






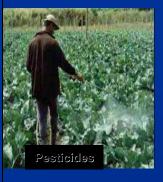


LOCAL PROBLEMS

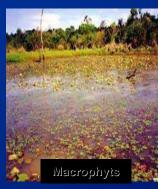






















WATER

GLOBAL PROBLEMS







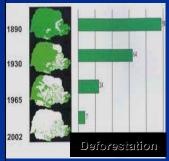






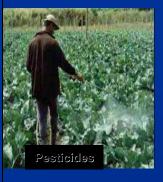


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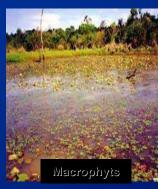






















WATER

World Bank Report / 99 - Twenty Century saw wars caused by ideological differences, religious or control of oil reserves and the twenty-first century could be dominated by conflicts caused by the scarcity of WATER

TODAY: 250 million people in 26 countries face chronic lack of water resources

PREDICTION: In 30 years, the number will jump to 3 billion in 52 countries

THE GLOBAL WARMING CAUSES

are due to the 'extra' increase of the following gases:

Carbon Dioxide (CO₂) – 49%

70 millions of tons of CO₂ are emitted to the atmosphere every 24 hours Fossil fuel burning, vegetation changes (deforestation), biomass burning

Methane (CH₄) – 18%

Boying pig and birds cate

Bovine, pig and birds catering – earth of rubbish Oil production

CFC's (clorofluorcarbon)— 14%

Pressurized container, refrigerators and air condicioning Electronic equipaments Aluminium and foundry products

Fertilizers industries
Oil combustion

Other gases – 13%





"In order to surviver to the present fast changes, we must be prepared to analyse the standards of our own based organizations"

Alvin Toffler – 'A Empresa Flexível'

"Companies are responsible by environment and must coordinate all its business in relation to environment responsibility and in order to protect Earth"

Ken O'Donnell – 'A Alma no Negócio'

NEW BUSINESS MISSION

BEFORE

To make good use of the water resources of the Parana River in hydraulic terms, owned jointly by both countries from and including Salto Grande de Sete Quedas, or Salto de Guaíra, to the mouth of the Iguassu River

PRESENT

To generate high-quality electricity with social and environmental responsibility, driving sustainable, economic and technological development, as well as tourism, in Brazil and in Paraguay

Situational Strategic Planning September 5, 2003

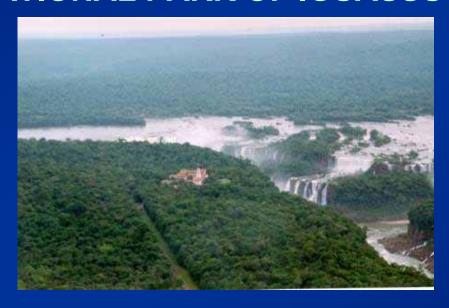
FOCUS: Social and environmental responsibility, the new ethic of business behavior



IGUASSU FALLS

NATIONAL PARK OF IGUASSU





MONDAY – PARAGUAY



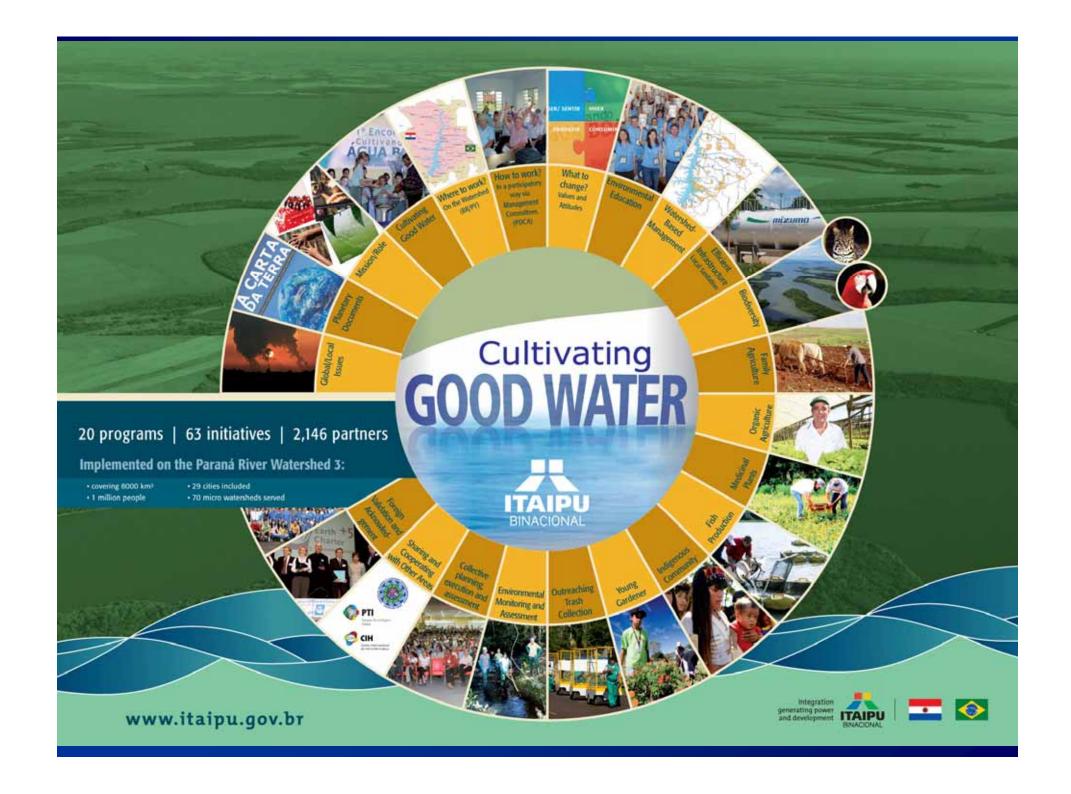


Energy with Socioenvironmental Responsibility



Nowadays

✓ SYSTEMIC VISION OF ENVIRONMENTAL MANAGEMENT WITH FOCUS ON SUSTAINABILITY



Principles

Ethics of Care – we care for what we love The Earth Charter - Principles

- 1- Respect and care for the community
- 2- Ecologic integrity
- 3- Social and economic justice
- 4- Democracy and peace



The millennium goals















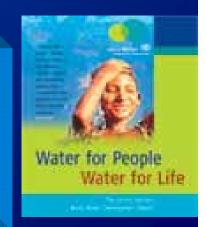


Treaty on Environmental Education for Sustainable Societies and Global Responsibility

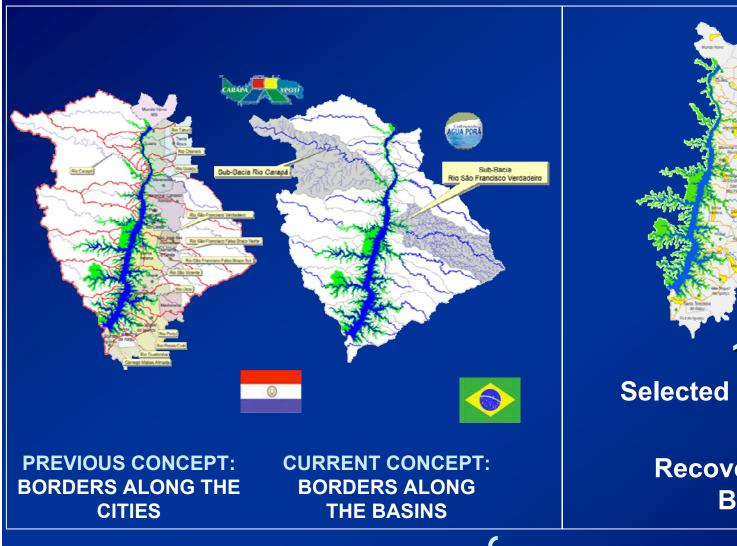
Water for all Water for life



- Eco Rio 92
- Agenda 21
- Global Pact
- Brazilian Public Policies
- National Conference on Environment
- Hydro Resources National Plan



BASIN MANAGEMENT



150 **Selected Micro Basins 70 Recovered Micro** Basins

Paraná 3 Basin

1 Million inhabitants29 Municipalities

CULTIVATING GOOD WATER OBJECTIVES

- ✓ Recovery of every single Paraná 3 Micro Basin
- ✓ Common management with local community
- ✓ Local action and global connection
- ✓ Support to vulnerable groups and promotion of social justice
- ✓ Construction of Culture for Peace and Water Culture
- **✓ Implementation of Ethics of Care**
- ✓ Construccion of Sustainability
- ✓ Search for a new way of Being, Feeling, Living, Producing and Consuming
- ✓ Construction of Solidarity between peoples and from people to the nature

IMPLEMENTATION PROGRAM STEPS



Selection of the micro basin



Community awareness



Partnership settlement



Water pacts



Signature of the agreement



Follow up and validation

Management committee composion



Future workshops

External Management Committee model



MONITORING AND EVALUATION

METHDOLOGY < AND STRUCTURATION

ENVIRONMENT
EDUCATION
AND SOCIAL
RESPONSIBILITY

CEU AZUL & MATELANDIA
CITY HALLS
IBAMA / EMATER
IAP /SEAB / NGOS
UNIVERSITIES
COOPERATIVE (LAR)
PUBLIC MINISTRY
RURAL AND COMPANIES
UNIONS
ADENAN / PRINTING PRESS
INHABITANTAS ASSOCIATIONS
BOVINE AND BIRDS PRODUCER

REPRESENTATION

WORKS
AND
INFRA-STRUCTURE

TERRITORIAL

EVALUATION

TECNOLOGIES
AND
ENVIRONMENT
ACTIONS

WORKSHOPS FOR THE FUTURE

175 workshops









The Tree of Hope





















Terracing

557,5,5 h Land drainage



146 **Manure distribuitors**



4.156.905 Trees planted in the protected belts



No Tillage

51.444,22 ha **Soil Conservation**



517 Water Community Supply Centers

442,8 t

Fertilizers correct destination



Green Fertilization

BASIN MANAGEMENT COLECTIVE ACTIONS



Spring waters restoration



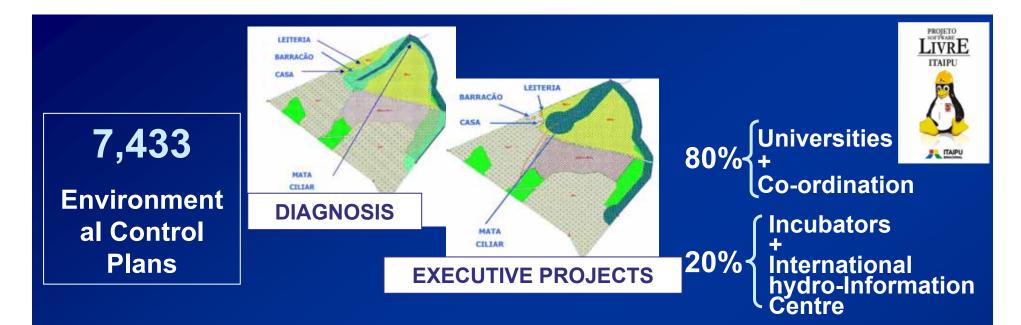
3.053 **Farmers and** technicians capacitated



1.972,01 km **Upgrading Roads**

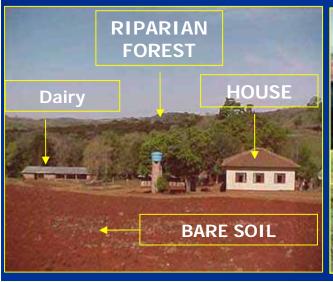


599,80 km of fences and



BASIN MANAGEMENT - INDIVIDUAL ACTIONS

ENVIRONMENTAL LIABILITY CORRECTION







Rural Sustainable Development

187

Organic producers in the beginning of the programme



967

Organic producers with technical support

Medicinal Plants [141 species]

- **√118** Medicine gardens established
- **√870** School cookers capacitated
- **√129.000** seedlings donated





Fish Production

- √730 Fish cage established
- **√3** Aquicultural Parks
- **✓** Structure of Fishing Points



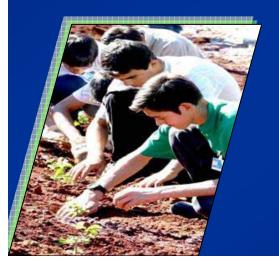
Avá Guarani Community

- √1,020 People
- √200 t of organic mandioc / year
- ✓ Pray's house, residences

Solidary Collecting

- **√1,667** Capacitating collectors
- **✓** Capacitation
- ✓ Chariots, uniform kits, equipments





Young Gardener

- **√260** Graduation
- **√20** Gardeners in course
- ✓ Gardener's kits being delivered



COLABORATIVE MONITORING PROGRAM

Objective:

Capacitating of local population on water quality monitored by identification of aquatic organism







Organismos sensiveis



Percepture

Tracing property codes

cyliness broper, portus

ses à persent

compressiones portus

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Green plens Louisia principa Louisia principa Louisia principa







Inchesters (en parte)

Inches en contes de

entres following como

entres following following

entres contes /5-10/km







Grittophare

Francis Constitute

Attained a lamanic Chas

and former more restriction

repti a formir de donne.

Organismos Intermediários



Odonahu

São as libilidas Comprimento: 10-50em Algamos têm os elhos grandes, gerras nos 5 parmes, andiênes arreciandada: a libra cabrinda as defras partes bucaris.

Cultral possuem corpo esguio, abdûmen fino, brânquies en forme de failhe e antenes longes



Thickopters (em parte).



São de vida livre, vermifermes, com gerrad no finel do corpo, brânquias no obdâmen e o pernas.



biptiere (un portu)



Persilonger a sutres.
Ten carpo vermifernia
sen cabega distinto a
sens perses.
Carpoimente: 10-40mm.



Homephero

Percensjos aquáticas Percens a aparelhe bucci somelhunte a um bica Sturtus "codass" sobre a deper.



Organismos tolerantes



Malanens



Communic de équirdone l'illi
Discripcio rique máx em genul
de larganismos necestandes
responses concher de vidros
formes a formativa
discripcio empérico podate
responses discripcio curio u
essocial messanismos



Manqueton il monore. Comun montiferme, calingo

bee definede e false pe Algunes e coldina de Communición post ales himoglaticos e timas corporativos



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Section 1

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Department





483
Presentation of
"A Matita" theater



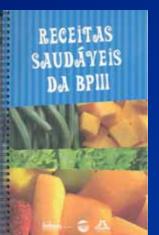
Networks on corporative environement and education in Brazil and in Paraguay



3.069/YEAR
Visits to the Ecomuseum and to the
Biological Protected Area



135.000
Students receiving the brochure



ENVIRONMENT EDUCATION

10.400 Protagonists on Environmental Education in the Paraná 3 Basin





PAP 2

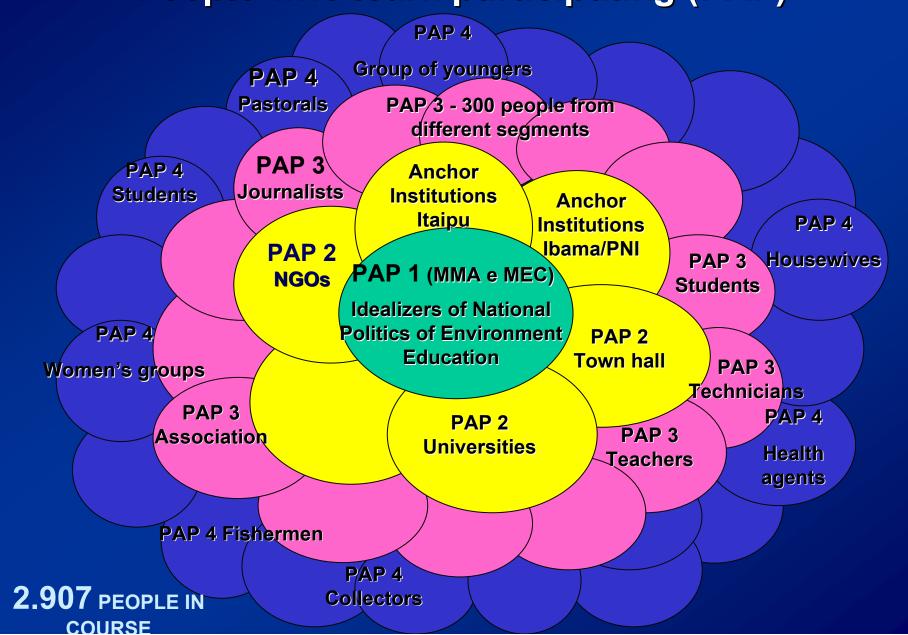


800 class hours

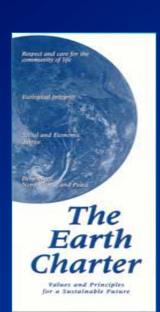
255 Environment Educators / 34 Involved municipalities

TREATY ON ENVIRONMENTAL EDUCATION FOR SUSTAINABLE SOCIETIES

PARTICIPATIVE RESEARCH ACTION People who learn participating (PAP)



65 WORKSHOPS ON CULTURE OF WATER







2006





WATER CULTURE

- Is the relation all societies have with water
- Is what we do with water, for water and in water
- Is the way conflicts are solved
- Is originated from the water use
- Are the dreams and poems concerning water

ALL PEOPLES HAVE A WATER CULTURE

Changes must be cultural in order to become permanent

Water management and water technology come after water culture

This is why water is a social and cultural good, as well as a right of everybody, including the ecosystems

Also, water is the ethics principles and is registered in the myths and legends of our peoples and religions

FOR THE FIRST NATION CITIZENS

Water is sacred

Water is a living being

- Water gives life
- Water is a social being
- Water is a spiritual being
- Water is the principle for everything
- Water is part of the ethic values
- Water is the basis of the cultures

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WORKSHOP OF EARTH CHARTER



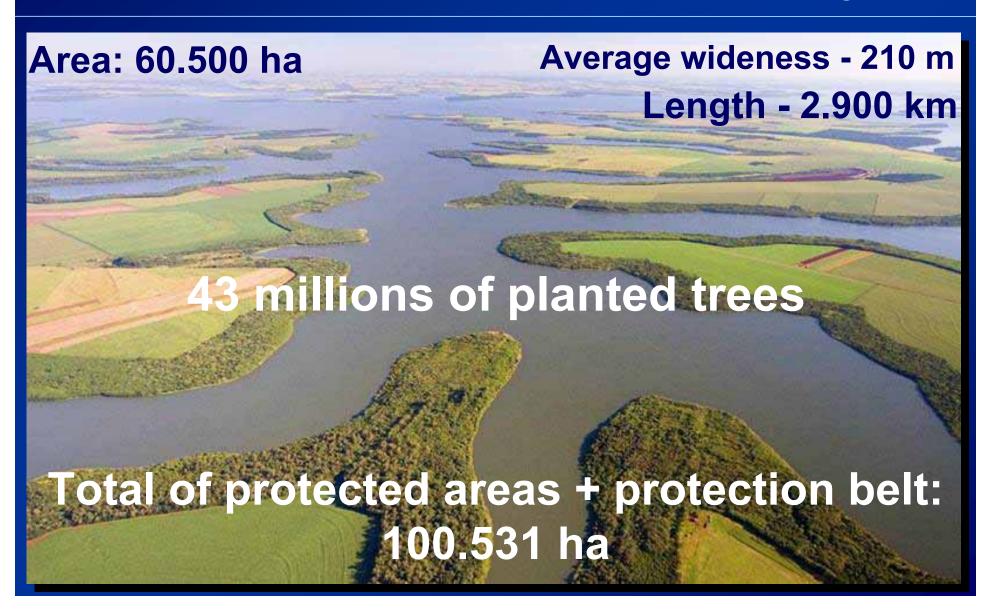
√ 65 workshops

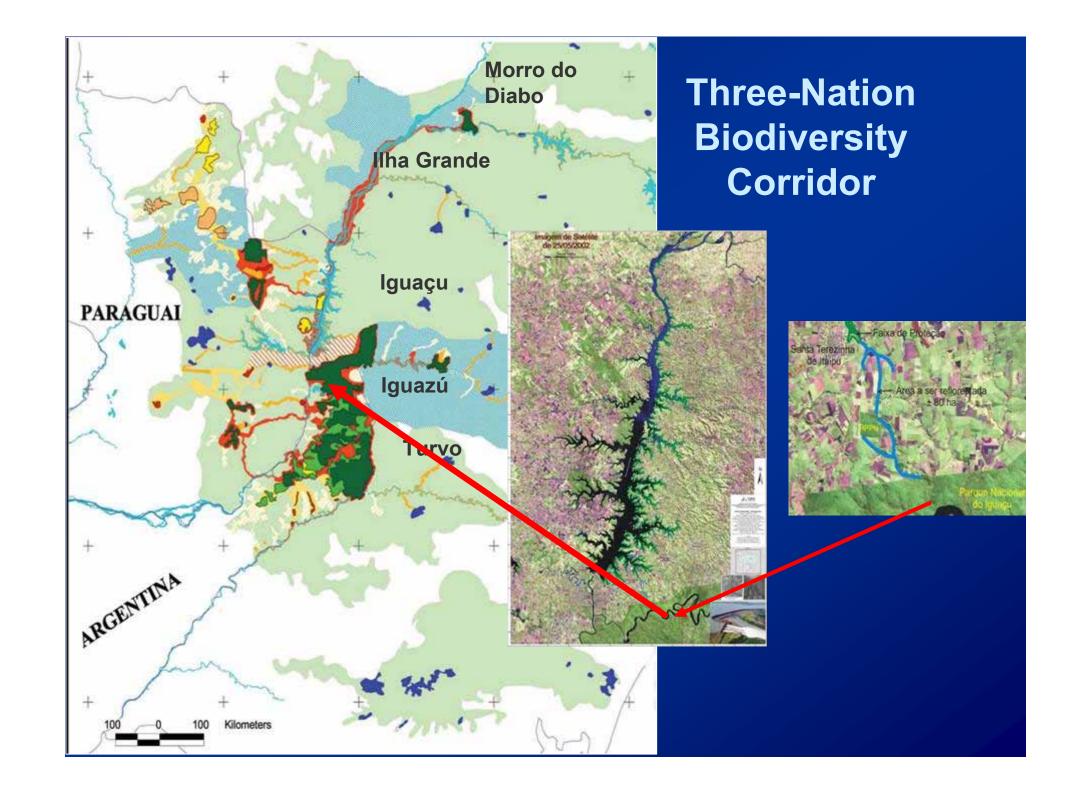




BIODIVERSITY: OUR INHERITANCE

732.863,16t Sequestration of Carbon per year





Biodiversity

CORRIDOR IN SANTA MARIA

Corridor **Iguassu National Park** Itaipu's forest protection belt

NATIONAL PATRIMONY PRIVADE RESERV - Sta. María Farm (240 ha)



AGROENERGY CONDOMINIUM FOR FAMILY AGRICULTURE



- ✓ Animals dejecta
- ✓ Bio-digestor
- ✓ Gas pipeline
- ✓ Bio gas electric power plant
- ✓ Bio fertilizer
- ✓ MDL (Clean Development Mechanism)





INTERNATIONAL CENTER OF HIDROINFORMATIC (CIH)

COOPERATION

UNESCO / PHI - Programa Hidrológico Internacional
UNESCO / PHI - Oficina Regional América Latina y Caribe - LAC
Gobierno del Brasil - COBRAPHI - Comisión Brasileña del PHI
Gobierno del Paraguay - CONAPY - Comisión Nacional del PHI del Paraguay
ITAIPU BINACIONAL PY / BR

CULTIVATING GOOD WATER

2006-2009 BASE ACTIONS FOR SUSTAINABILITY

BEING / FEELING

Awareness

Training

Concepts

Values

Ethics of Care

"Logos X Patos "

Sustainable Society

PRODUCING

Agroecology

Organic Agriculture

No tillage

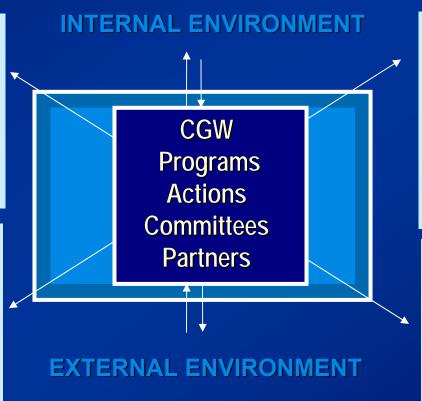
Diversification

Aquiculture

Associations

Technologies

Sustainable Societies



LIVING

Basin / Microbasin Environmental liabilities Water Sources/Rivers River Bank Soil Conservation Life Community Sustainable Society

CONSUMING

Food / Organic
Flowing out - Solidary
Collect
Health/Medicine Plants
Water / Energy
Being X Having Culture
Sustainable Society

GOVERNMENT / COMMUNITY / ENVIRONMENT







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