

FAO

Cedrela fissilis, Meliaceae

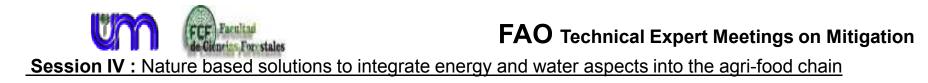
Technical Expert Meetings on Mitigation

Session IV Nature based solutions to integrate energy and water aspects into the agri-food chain

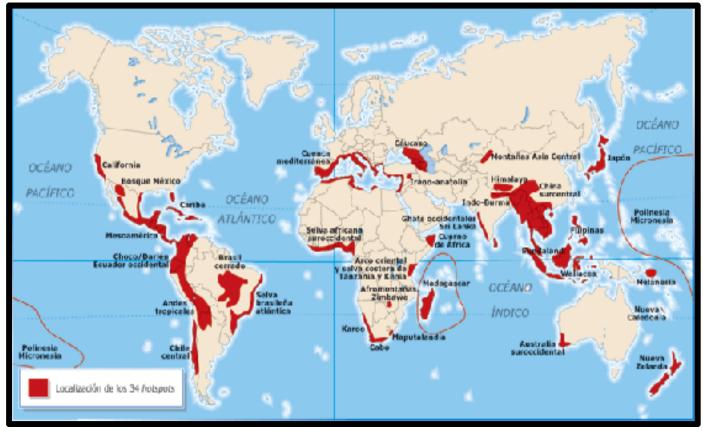
Productive Forests and Agroforestry Systems with Native Species in Areas of Environmental Mitigation in Subtropical Climates of Argentina

EIBL Beatriz <u>eiblbeatriz@gmail.com</u> Faculty of Forestry –National University of Misiones, Argentina BONN Germany, 21 June 2019





Hotspots biogeographical region with high and threatened biodiversity, (34 in the world)



Myers et al. 2000. Biodiversity hotspots for conservation priorities. NATURE

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Tropical and subtropical rainforests with a geological history and species in common

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With millions of years of evolution, it has more than 10,000 plant species

3 BRASIL 3 CEANC 20 CIFICO 8 OCEANO ATLANTICO SUR 4 corregión Global 200 de los Bosques Atlánticos environmental mitigation area ģ

Di Bitetti, M. S., G. Placci y L. A. Dietz. 2003. Visión de Biodiversidad de la Ecorregión del Bosque Atlántico del Alto Paraná: diseño de un paisaje para la conservación de la biodiversidad y prioridades para las acciones de conservación. World Wildlife Fund. Washington, D.C., USA. pp 154

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Figure 4. Forest Remnants of the Atlantic Forests Global 200 Ecoregion

Ecorregion Considered a critical point of conservation that only maintains 8% of the original surface

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Interior Atlantic Forest, Paranaense Forest for Argentina

BRAZIL BOLIVIA BELO HORIZON TE ASUNCIO ARGENTI URUGUA Ecoregion Compl BUENOS

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BOSQUE ATLANTICO INTERIOR –inserted in the called la CUENCA DEL PLATA (3.200.000 km2)

AN IMMENSE AREA OF SURFACE WATER unites the three countries Paraguay, Brazil and Argentina IT IS THE SOURCE THAT RECHARGES THE AQUIFER GUARANI



Subtropical Rain Forest Misiones



Source: Fundación Vida Silvestre Argentina.2005



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Safe biodiversity Source of fruits and seeds

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From the natural succession of the site

Pioneer species

Cecropia adenopus (Ambay,) Solanum granulosum (fumo bravo), Trema micrantha (palo polvora) and others



✓ And with plantations

Araucaria angustifolia (araucaria)





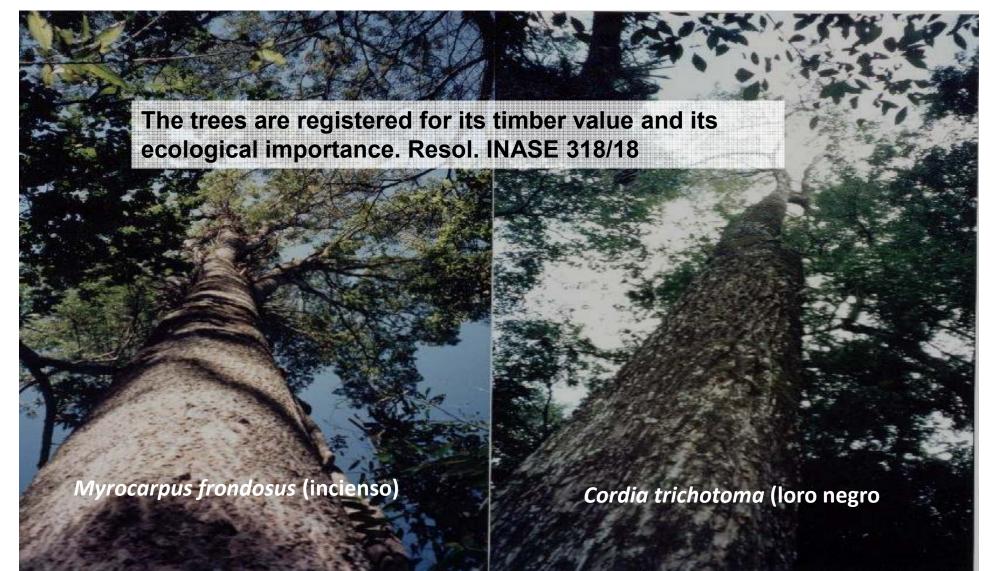
Peltophorum dubium (caña fistola)

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Plantations with native species

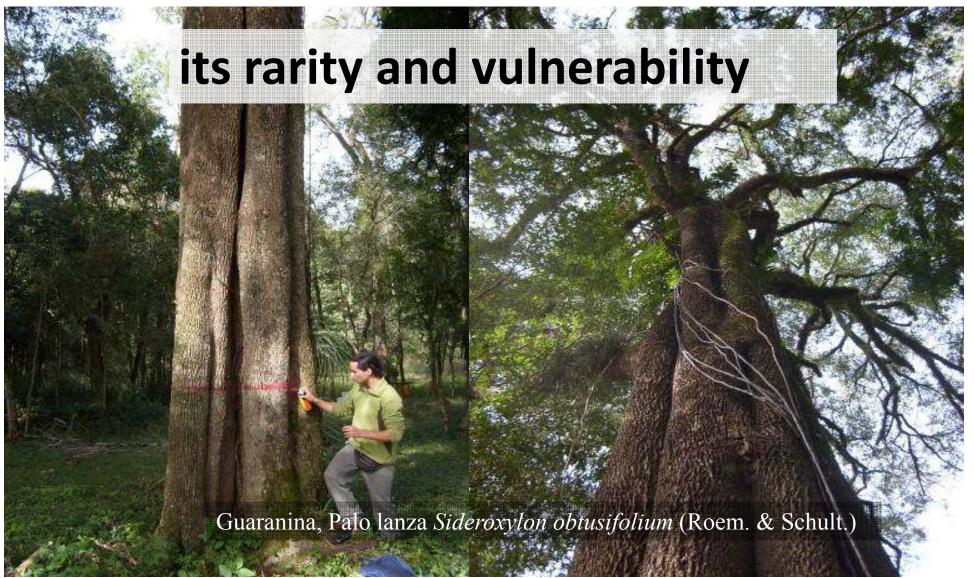


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Ceiba speciosa Samohu,

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The fruits are harvested



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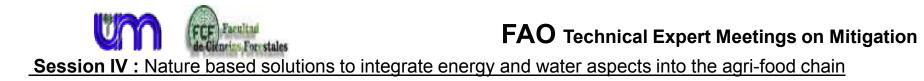
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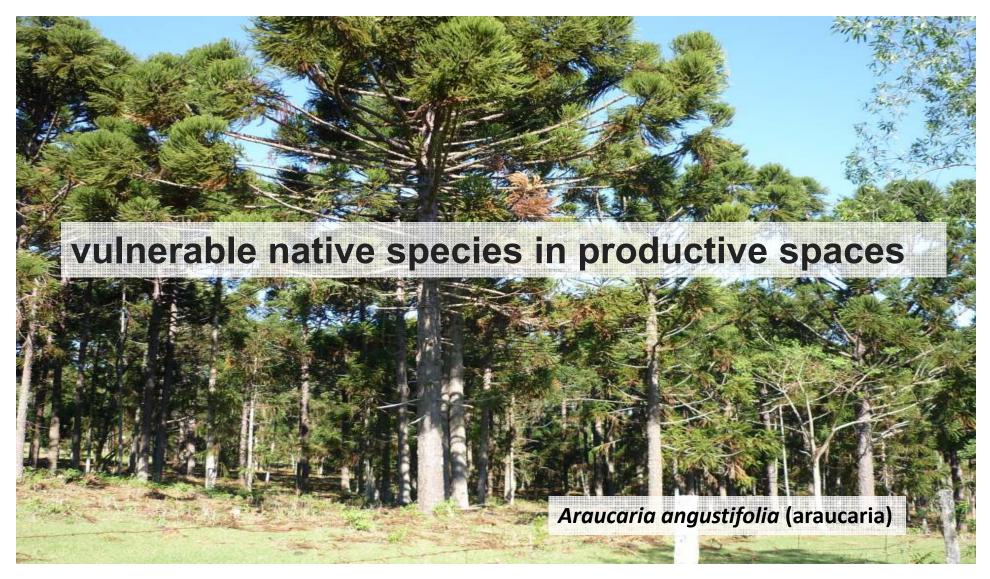


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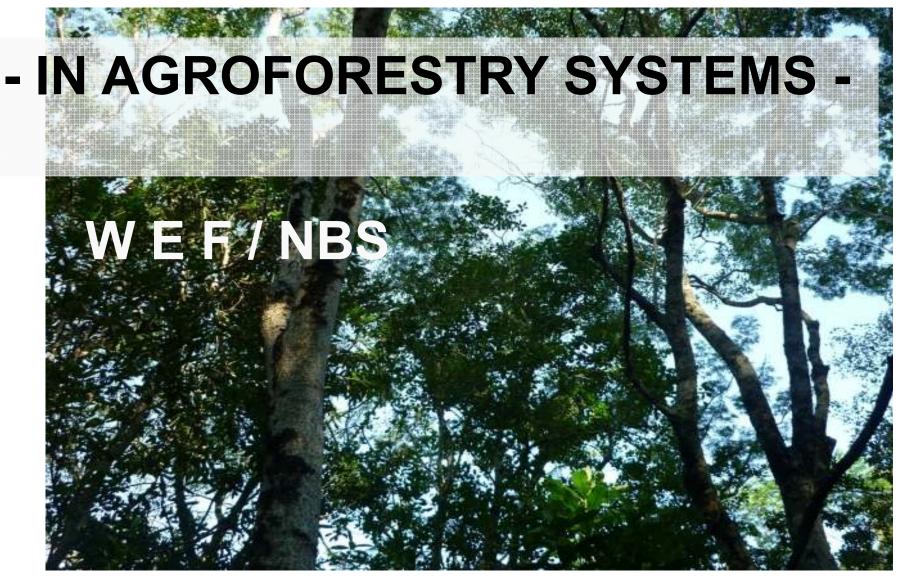


Aspidosperma polyneuron (PALO ROSA)



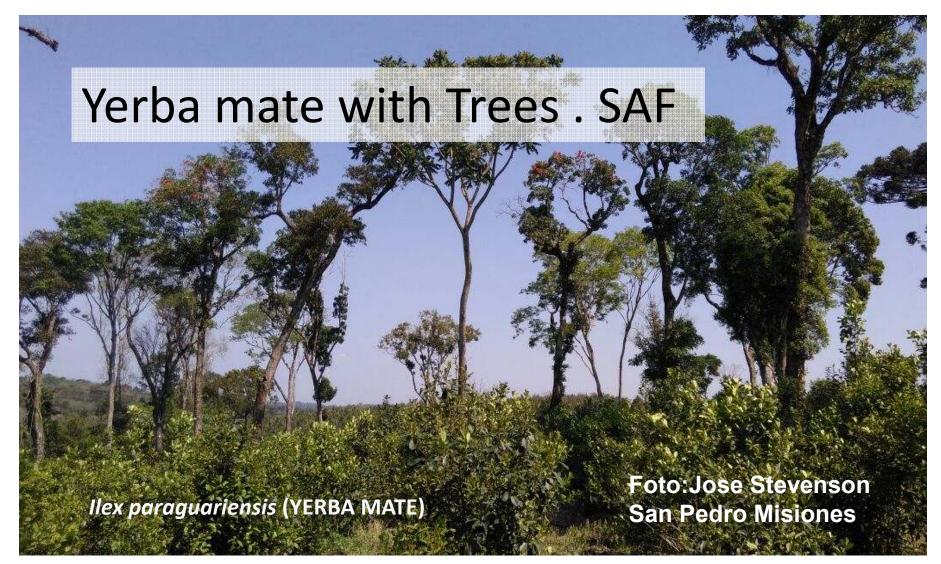


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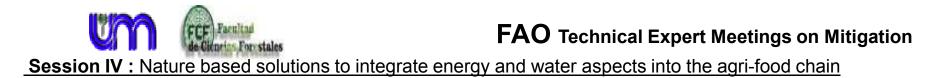
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flowers for honey

Luehea divaricata (zoita)



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Fruits diversity

Rollinia emarginata (araticu)



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Trees for the landscape

Handroanthus heptaphyllus, LAPACHO NEGRO



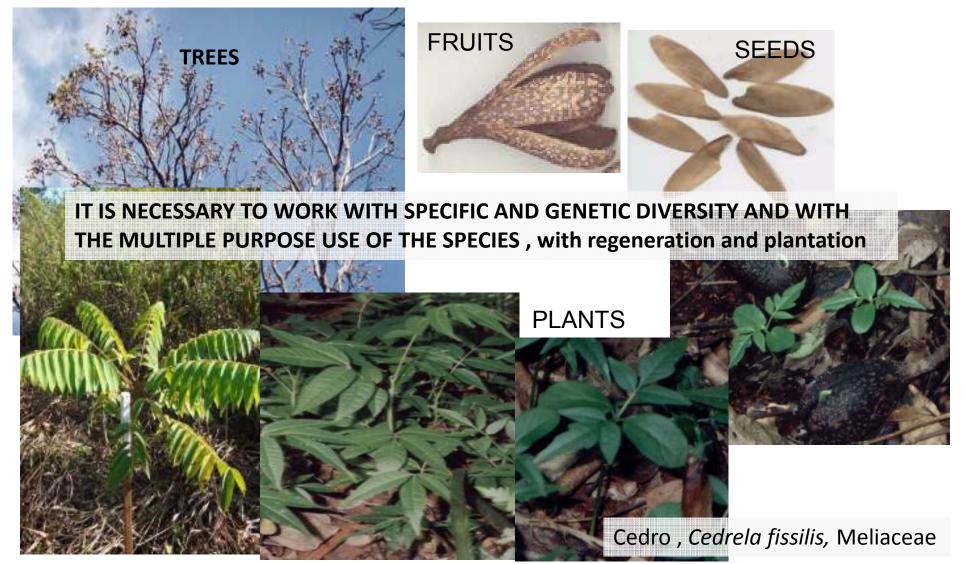
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Plantations and natural regeneration new FOREST

WEFINBS

Infiltration of Precipitation. Maximum use of available energy. Atmospheric CO2 fixation. Healthy food production. It is restored accompanying the natural regeneration

SAF *llex paraguariensis* (YERBA MATE) with *Handroanthus heptaphyllus* , Enterolobium contortisiliquum and Balfourodendron riedelianum TREES