



One of the 15 centers of the CGIAR

Our focus: smart use of tree diversity in different restoration approaches

Introduction



- Most countries do not have sufficient public funds to meet restoration goals
- Private sector involvement is key for achieving restoration goals
 - investors
 - Carbon offsets
 - Compensatory policies
 - **–** ...
- Why the need for smart use of diversity in restoration plans?
 - Avoid short and long-term failures (and waste of money)
 - Increase possibilities for profit generation and diversification
 - Promote resilience



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- Decision support tool to guide the selection of species and seed sources for restoration of Tropical dry forest in Colombia
- Examples of profitable restoration in Colombia with involvement of the private sector

1. Decision support tool to guide the selection of species and seed sources for restoration of Tropical dry forest in Colombia











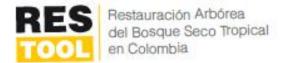






RESTOOL - Decision support tool

- Selection of species and seed sources is crucial for making sure that what is planted is
 - aligned with the restoration objectives
 - able to survive under local stress factors
 - Will be able to develop into a resilient ecosystem
- Should be based on a combination of climate modeling, functional trait analysis, genetic characterization data, availability of propagation protocols.
- Objective of RESTOOL is to make life of restoration practitioners easier, and to offer donors, investors, policy makers due diligence tool





















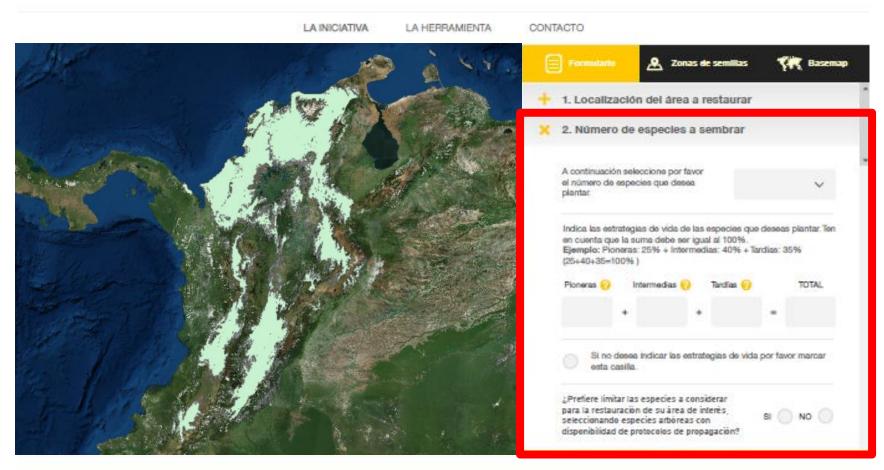
























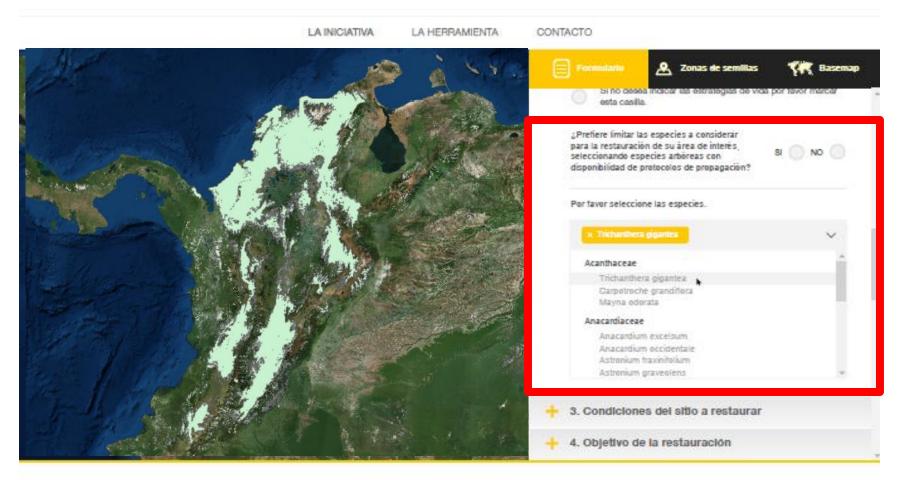


















































conservación	Suelos/cuencas/car bono	Usos comerciales	Usos tradicionales
Aves frugívoras	Cuencas	maderable	Alimenticio
Aves insectívoras	Fertilidad y estructura suelo	papel	Medicinal
Mamíferos terrestres	Carbono	Biocombustible	Colorante-tinte-resinas- ceras-aceites
Murciélagos	Descontaminación	silvopastoril	Leña
Maniferos arbóreos	Estabilización pendientes o taludes	agroforestal	Cultural
Insectos voladores (ej mariposas)		Productos no maderables	Melífera
Hormigas			Fibra
Especies en peligro de extinción (IUCN, CITES, Lista Roja)			Construcción domestico
Maximizar diversidad filogentica			Toxico (repelente pesca caza, control de plagas)
Especies con veda			ornamental

























Next steps



- Put the tool to trial
- Pilot plots in the compensatory area for biodiversity loss due to the construction of the largest hydroelectrical power dam of Colombia in Ituango
- Support from EPM (dam builder) and CBD-FERI
- Test the effectiveness of RESTOOL to achieve biodiversity and ecosystem service objectives compared to conventional restoration and natural regeneration.





Thank you

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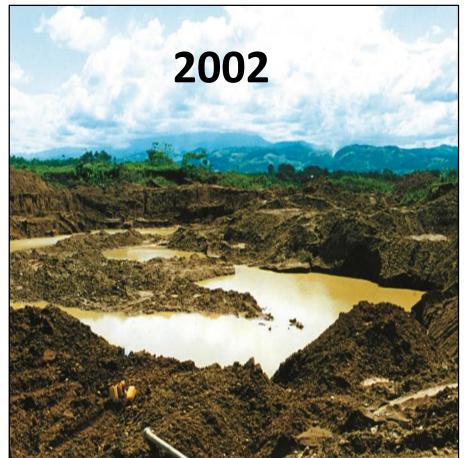




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- Decision support tool to guide the selection of species and seed sources for restoration of Tropical dry forest in Colombia
- 2. Examples of profitable restoration in Colombia with involvement of the private sector







1292 ha>120 native tree speciesJaguars, sloths, primates, boas...

VCS, CCBS certification
Trading >430.000t at >8 USD/t









































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