

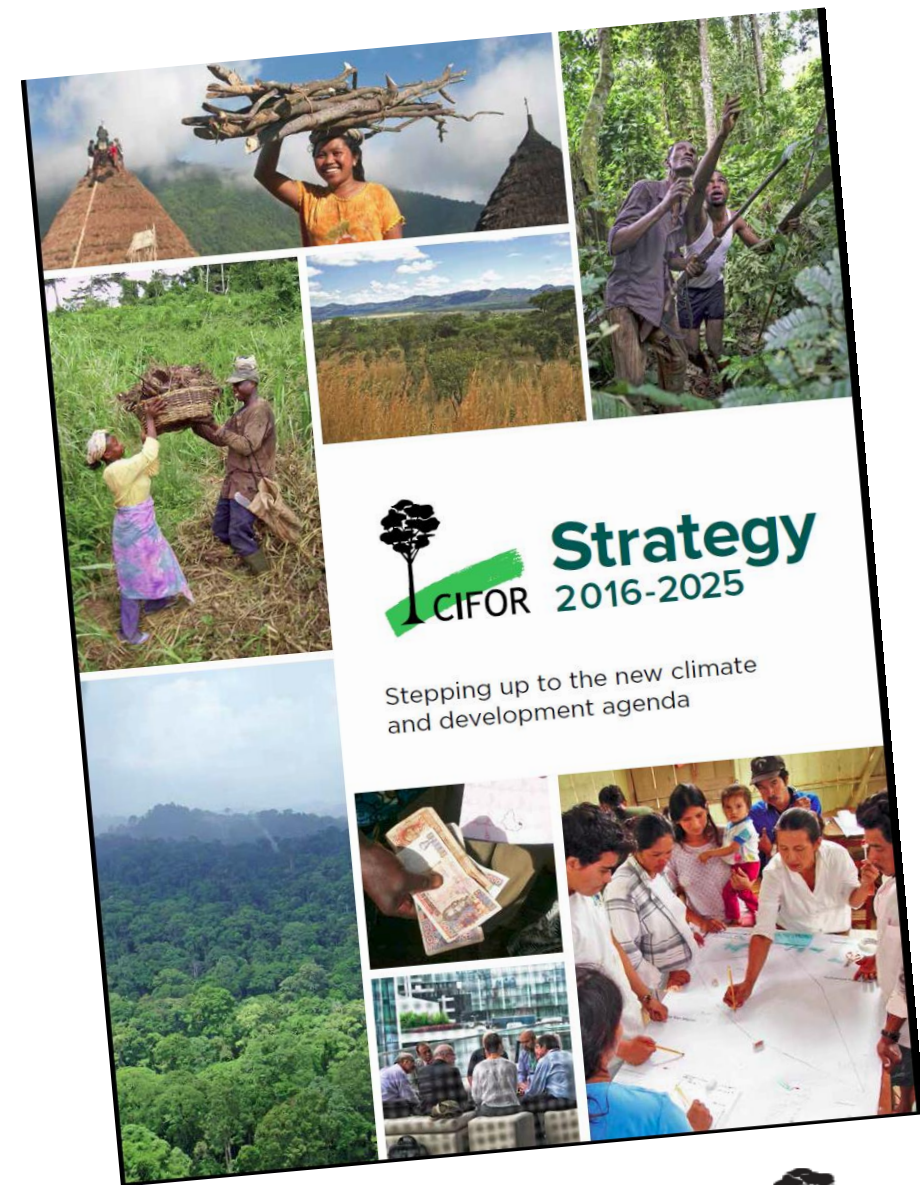


Forest Management and Restoration

26 October 2016



- Assessing the effectiveness of public policies and market-based instruments in reducing the social and environmental footprints in production forests
- Enhancing forest multi-functionality in landscapes including refinement of locally relevant norms and regulations
- Developing methods and tools to enhance equity in decision making, and minimize local conflicts in multiple-use of forests



Key outputs from previous USAID funding

OCCASIONAL PAPER



An overview of current knowledge about the impacts of forest management certification
A proposed framework for its evaluation

Claudia Romero
Francis E. Putz
Manuel R. Guariguata
Erin O. Sills
Paolo O. Cerutti
Guillaume Lescuyer



OCCASIONAL PAPER



The context of natural forest management and FSC certification in Indonesia

Edited by
Claudia Romero
Francis E. Putz
Manuel R. Guariguata
Erin O. Sills
Ahmad Maryudi
Ruslandi



OCCASIONAL PAPER



The context of natural forest management and FSC certification in Brazil

Editors
Claudia Romero
Manuel R. Guariguata
Francis E. Putz
Erin O. Sills
Guilherme R. Lima
Luciana Papp
Maureen Voigtlaender
Edson Vidal



Forest Management

RESEARCH ARTICLE

Nut Production in *Bertholletia excelsa* across a Logged Forest Mosaic: Implications for Multiple Forest Use

Cara A. Rockwell^{1,2*}, Manuel R. Guariguata¹, Mary Menton^{1,3}, Eriks Arroyo Quispe^{1,4}, Julia Quaedvlieg¹, Eleanor Warren-Thomas^{1,5}, Harol Fernandez Silva^{1,4}, Edwin Eduardo Jurado Rojas^{1,4}, José Andrés Hideki Kohagura Arrunátegui^{1,4}, Luis Alberto Meza Vega^{1,4}, Olivia Revilla Vera^{1,4}, Roger Quenta Hancoco^{1,4†}, Jonatan Frank Valera Tito^{1,4}, Betsy Tabita Villarroel Panduro^{1,4}, Juan José Yucra Salas^{1,4}

1 Center for International Forestry Research (CIFOR), Lima, Perú, 2 International Center for Tropical Botany, Department of Earth and Environment, Florida International University (FIU), Miami, FL, United States of America, 3 Solutions and Evidence for Environment and Development (SEED), Oxford, United Kingdom, 4 Universidad Nacional Amazónica de Madre de Dios (UNAMAD), Facultad de Ingeniería Forestal y Medio Ambiente, Puerto Maldonado, Madre de Dios, Perú, 5 Centre for Ecology, Evolution and Conservation, School of Environmental Sciences, University of East Anglia, Norwich, United Kingdom

info**brief**

No. 126, Setiembre 2015 | DOI: 10.17528/cifor/005747 | cifor.org

CIFOR infobrief brinda información concisa, fiable y evaluada por pares sobre temas actuales relacionados con la investigación forestal.



La producción de castaña (*Bertholletia excelsa*) en el contexto de la extracción de madera en Madre de Dios, Perú

Implicaciones para promover un manejo integrado del bosque

Manuel R. Guariguata y Cara A. Rockwell

Restoration

DOCUMENTOS OCASIONALES



La restauración ecológica en Colombia

Tendencias, necesidades y oportunidades

Carolina Murcia
Manuel R. Guariguata



Conservation Letters

A journal of the Society for Conservation Biology

Open Access

POLICY PERSPECTIVES

Challenges and Prospects for Scaling-up Ecological Restoration to Meet International Commitments: Colombia as a Case Study

Carolina Murcia^{1,2}, Manuel R. Guariguata¹, Ángela Andrade³, Germán Ignacio Andrade^{4,5}, James Aronson^{6,7}, Elsa Matilde Escobar⁸, Andrés Etter⁹, Flavio H. Moreno¹⁰, Wilson Ramírez⁴, & Elena Montes⁹

¹ Center for International Forestry Research (CIFOR), Av. La Molina 1895, La Molina, Lima, Perú

² Departamento de Ciencias Naturales y Matemáticas, Pontificia Universidad Javeriana – Seccional Cali, Cali, Colombia

³ Conservation International, Carrera 13 No. 71-41, Bogotá, D.C., Colombia

⁴ Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Calle 28A # 15-09, Bogotá, D.C., Colombia

⁵ Universidad de los Andes, Facultad de Administración, Carrera 1 No. 18A-12, Bogotá, D.C., Colombia

⁶ Missouri Botanical Garden, P.O. Box 299, St. Louis, MO, 63166-0299, USA

⁷ Centre d'Ecologie Fonctionnelle et Evolutive (UMR 5175, CEFE - campus CNRS), 1919, Route de Mende, 34293, Montpellier, France

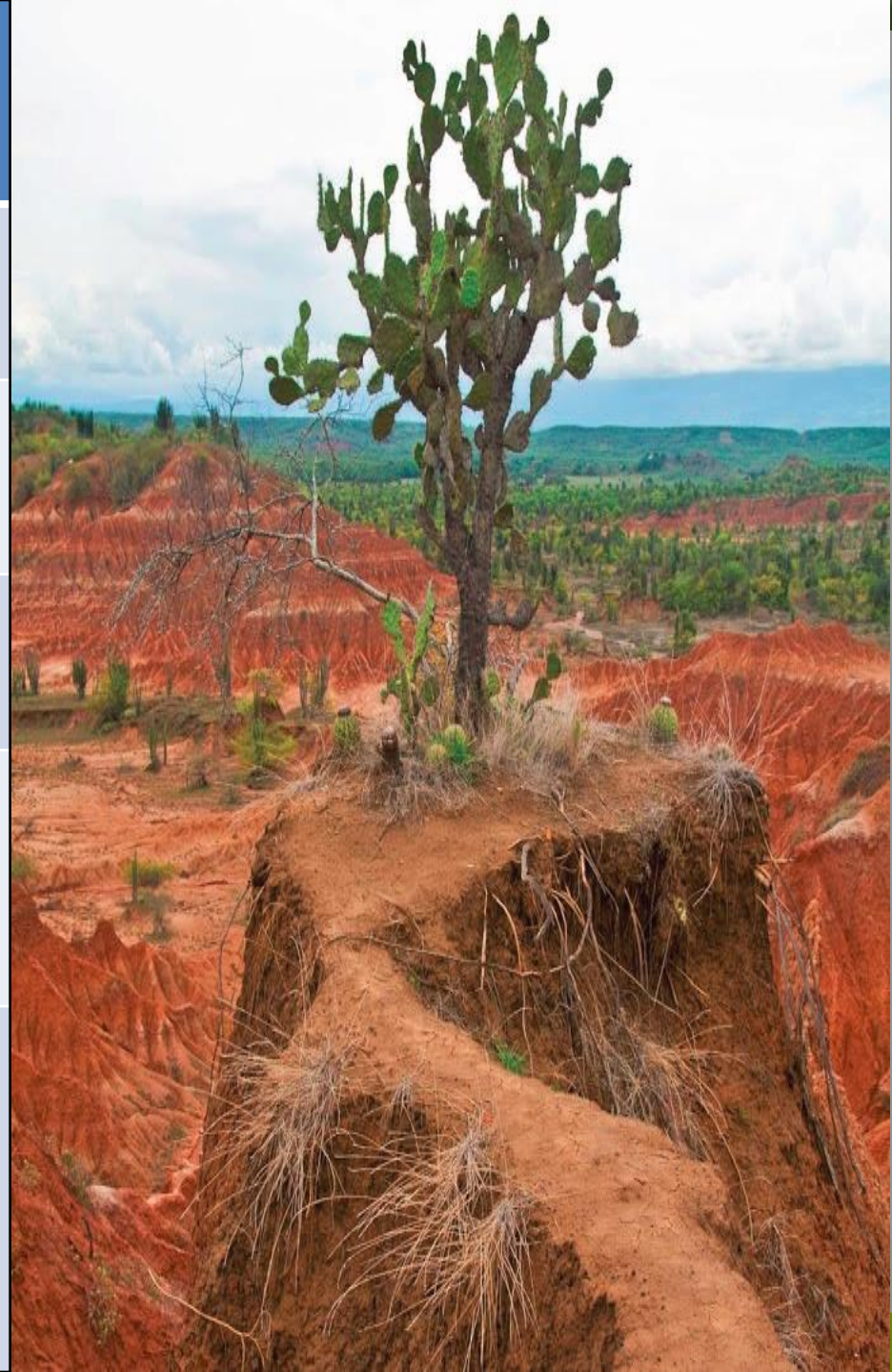
⁸ Fundación Natura, Carrera 21 No. 39-43, Bogotá, D.C., Colombia

⁹ Departamento de Ecología y Territorio, Facultad de Estudios Ambientales y Rurales, Universidad Javeriana, Carrera 7 No 40-62, Bogotá, D.C., Colombia

¹⁰ Universidad Nacional de Colombia, Sede Medellín, Calle 59A No 63-20, Medellín, Colombia



Agreements	Goals
Aichi target 15	15 % of degraded ecosystems restored by 2020
Bonn Challenge	150 M ha restored by 2020
New York Declaration	200 M ha restored by 2030
20 x 20 and AFR100 initiatives	20 M ha in Latin America restored by 2020 and 100 M ha in Africa by 2030
Nationally Determined Contributions (NDCs)	Post-2020: 122 M ha restored, reforested, afforested



Forest Restoration within CIFOR's new strategy

Linking restoration programs with key environmental and socioeconomic interests, including biodiversity conservation, carbon storage, water and soil protection, forest production

- (i) increasing the sustainability of restored forests including climate change considerations
- (ii) balancing interests in multi-scale, multi-actor, multi-sector forest restoration and sustainable use
- (iii) enhancing ecosystem service supply through improved prioritization and socioecological mapping



The global restoration agenda: “scaling up”

- Lack of clarity and agreement on selection criteria for selecting areas and poor quantification of the environmental and economic outcomes of different modes of restoration for effective implementation
- Few institutional and policy arrangements in a coordinated fashion and current prioritization and monitoring tools and approaches not tailored for scaling up
- Limited knowledge on the size of the emission reductions from different forms of restoration in a realistic timeframe



Ongoing (2015-2017)



- Evidence based assessment to identify gaps and needs *en route* to Mexico's national restoration plan
- Policy oriented analytical research on Colombia's biodiversity offset law
- Legal and institutional bottlenecks for restoration of Andean forests in Bolivia, Colombia, Ecuador and Peru
- Institutional, socioeconomic and technical dimensions of forest restoration in mountainous landscapes occupied by smallholder communities in China
- Developing a framework to gauge ecosystem service provision in planted forests
- Participatory monitoring tools and approaches—connecting global and local needs





Informing global/regional processes: Planned activities



- Global review of prioritization and decision support tools to guide effective implementation of restoration actions
- Global synthesis on governance and institutional challenges for upscaling — key elements for a national restoration plan
- Mapping of subnational initiatives (20x20, AFR100) and assessing their potential for long term environmental and social impact (degradation, deforestation, C seq. potential, poverty)



- Developing a spatially explicit risk assessment framework for restoration investments at a global scale
- Developing a framework for international standards for forest restoration activities
 - On the horizon: (i) monitoring effectiveness of national restoration commitments
 - (ii) Performance standards
 - (iii) Links with zero deforestation, green growth, food security