Analysis Shows Gaps in Understanding of Impacts of Forest Restoration on Local Livelihoods.

Adams, C., S. Rodrigues, M. Calmon, and C. Kumar. 2016. Impacts of Large-Scale Forest Restoration on Socioeconomic Status and Local Livelihoods: What We Know and Do Not Know. Biotropica 48: 731–744.

Four Key Opportunities for Regulating Markets to Promote FLR.

Brancalion, P. H. S., D. Lamb, E. Ceccon, D. Boucher, J. Herbohn, B. Strassburg, D. P. Edwards. 2017. Using markets to leverage investment in forest and landscape restoration in the tropics. Forest Policy and Economics 8: 103-113.

Practical Guidelines Aid in Setting Global Restoration Targets in the Lowland Most Tropics.

Brancalion, P. H. S., A. Niamir, E. N. Broadbent, et al. and R. L. Chazdon. 2019. Global restoration opportunities in tropical rainforest landscapes. Science Advances (in press).

Underrepresentation of Large-Seeded Species Compromises the Conservation Value of Restoration Plantations.

Brancalion, P. H. S., C. Bello, R. L. Chazdon, M. Galetti, P. Jordano, R. A. F. Lima, A. Medina, M. A. Pizo, and J. L. Reid. 2018. Maximizing biodiversity conservation and carbon stocking in restored tropical forests. Conservation Letters: e12454.

Guiding Principles to Align Reforestation with FLR.

Brancalion, P. H., and R. L. Chazdon. 2017. Beyond hectares: four principles to guide reforestation in the context of tropical forest and landscape restoration. Restoration Ecology 25: 491-496.

New Frameworks Needed to Balance Costs and Ecological Benefits of Active and Passive Forest Restoration.

Brancalion, P.H.S., D. Schweizer, U. Gaudare, J. Mangueira, F. Lamonato, F. Farah, A. Nave, and R. Rodrigues. 2016. Balancing economic costs and ecological outcomes of passive and active restoration in agricultural landscapes: the case of Brazil. Biotropica 48: 856-867.

Innovations to Bridge the Gap Between Knowledge and Action in Restoration.

Brancalion, P.H.S. and van Melis, J,. 2017. on the Need for innovation in Ecological Restoration. Annals of the Missouri Botanical Garden 102(2): 227-237.

Tropical Restored Forests as Sustainable Production Systems.

Brancalion, P.H.S., 2018. Promoting tropical forest restoration in Brazil through timber and nontimber forest products. Current Conservation.

Private Sector, Government, NGOs and Research Organizations Formed a Coalition to Restore Forests in Brazil's Atlantic Forest Region.

Brancalion, P.H.S., S. R. Pinto, L. Pugliese, A. Padovezi, R. R. Rodrigues, M. Calmon, H. Carrascosa, P. Castro, B. Mesquita. 2016. Governance innovations from a multi-stakeholder coalition to implement large-scale Forest Restoration in Brazil. World Development Perspectives 3: 15-17.

How Community-Based Forest Led to Rules to Protect Young Recovering Forests.

Bray, D. B. 2016. Muir and Pinchot in the Sierra Norte of Oaxaca: Governance of forest management and forest recovery in Pueblos Mancomunados. World Development Perspectives 4: 8-10.

How Public-Private Partnership Can Empower Communities and Improve Restoration Outcomes.

Cagalanan, D., 2016. Public-private partnerships for improved reforestation outcomes in the Philippines. World Development Perspectives 3: 32-34.

Non-Native Tree Species Can Help Restore Forests in Tropical Landscapes.

Catterall, C. P., 2016. Roles of non-native species in large-scale regeneration of moist tropical forests on anthropogenic grassland. Biotropica 48: 809-824.

Returning Forests, often Ignored and Undervalued, Play an increasingly Important Role in Climate Change Mitigation and Biodiversity Conservation in Tropical Landscapes

Chazdon, R. L., 2017. Landscape restoration, natural regeneration, and the forests of the future. Annals of the Missouri Botanical Garden 102: 251-257.

Dialogues Between Scientists and Policy Makers to Develop a Shared Vision and Vocabulary for Forest and Landscape Restoration.

Chazdon, R. L., and L. Laestadius. 2016. Forest and landscape restoration: Toward a shared vision and vocabulary. American Journal of Botany 103: 1869-1871.

Steps Towards Implementing NR as a Large-Scale Restoration Approach.

Chazdon, R. L., and M. R. Guariguata. 2016. Natural regeneration as a tool for large-scale forest restoration in the tropics: prospects and challenges. Biotropica 48: 716-730.

Natural Regeneration of Forest Can Promote Conservation Practices and Provide Economic Benefits for Smallholders.

Chazdon, R. L., and M. Uriarte. 2016. Natural regeneration in the context of large-scale forest and landscape restoration in the tropics. Biotropica 48: 709-715.

A Research Agenda to Bridge Gaps in Knowledge and Know-How to Implement Forest and Landscape Restoration

Chazdon, R. L., P. H.S. Brancalion, D. Lamb, L. Laestadius, M. Calmon, and C. Kumar. 2017. a policy-driven knowledge agenda for global forest and landscape restoration. Conservation Letters 10: 125-132.

Forest Definitions influence Approaches and Outcomes of Reforestation.

Chazdon, R. L., P. H. Brancalion, L. Laestadius, A. Bennett-Curry, K. Buckingham, C. Kumar, J. Moll-Rocek, I. C. G. Vieira, and S. J. Wilson. 2016. When is a forest a forest? Forest concepts and definitions in the era of forest and landscape restoration. Ambio 45: 538-550.

Interactions Among Scientists, Policy-Makers, and Practitioners Are Urgently Needed to Align Efforts to Restore Ecological Functions and integrity to Forest Landscapes.

Chazdon, R. L., 2018. Advances and challenges for achieving large-scale forest restoration in the tropics. Current Conservation 12: 1.

Retrieved from: <u>https://www.currentconservation.org/issues/advances-and-challenges-for-achieving-large-scale-forest-restoration-in-the-tropics/</u>

A Transformative Criteria and indicators Framework Anchored in the FLR Principles Can Bring Many Benefits to Actors and Different Sectors involved in Restoration.

Chazdon, R.L., V. Gutierrez, P. Brancalion, L. Laestadius, and M.R. Guariguata. 2019. Co-creating Conceptual and Working Forest and Landscape Restoration Frameworks Based on Core Principles.

Getting Help From Above: Enlisting Drones to Assist Natural Regeneration and Forest Restoration.

Elliott, S., 2016. the potential for automating assisted natural regeneration of tropical forest ecosystems. Biotropica 48: 825-833.

Similar Early Pathways of Tree Recruitment in Natural Regeneration and Tree Planting Treatments.

Gilman, A., S. Letcher, R. M. Fincher, A. Perez, T. Madell, A. Finkelstein, and F. Corrales-Araya. 2016. *Recovery of floristic diversity and basal area in natural forest regeneration and planted plots in a Costa Rican wet forest. Biotropica* 48: 798-808.

Participatory Restoration Planning and Matching Community Organization with Restoration Units' Size Are Key Strategies to Achieve Restoration Success.

Gregorio, N. and Herbohn, J., 2018. Implementing the National Greening Program in the Philippines: lessons learned. Current Conservation.

Retrieved from: <u>https://www.currentconservation.org/issues/implementing-the-national-greening-program-in-the-philippines-lessons-learned/</u>

Agroforestry Hold Enormous Potential for Forest and Landscape Restoration to Bring Trees to Degraded Lands Across the Tropics.

Harrison, R. and Miccolis, A., 2018. the critical role of agroforestry in forest and landscape restoration. Current Conservation.

Retrieved from: <u>https://www.currentconservation.org/issues/the-critical-role-of-agroforestry-in-forest-and-landscape-restoration/</u>

Empowering Local Citizens to Make Forest Management and Restoration Decisions.

Holder, C., 2016. Multiscale forest governance structures within a transboundary biosphere reserve in Central America. World Development Perspectives 3: 22-24.

What Do We Know About Tropical Forest Restoration and Where Do We Go Next?

Holl, K.D., 2017. Research Directions in Tropical Forest Restoration. Annals of the Missouri Botanical Garden 102(2): 237-251.

Forest Type Choice on Reforestation Projects and Its Drivers Are Key on Maximizing Ecological Benefits on Big Reforestation Projects.

Hua, F., 2018. Reaping greater environmental dividends from China's reforestation programs. Current Conservation.

Retrieved from: <u>https://www.currentconservation.org/issues/reaping-greater-environmental-</u> <u>dividends-from-chinas-reforestation-programs/</u>

Rural Villager Association Shows Leadership, Empowerment and inclusivity in Restoring Watersheds.

Kramer, D., B. Vallarino. 2016. an association of rural villagers leading by example at the landscape scale in Honduras. World Development Perspectives 3: 12-14.

Social and Ecological Factors Are Linked to Recovery of Biodiversity During NR.

Latawiec, A. E., R. Crouzeilles, P. H. S. Brancalion, R. R. Rodrigues, J. B. B. Sansevero, J. S. dos Santos, M. Mills, A. G. Nave, and B. B. N. Strassburg. 2016. Natural regeneration and biodiversity: a global meta-analysis and implications for spatial planning. Biotropica 48: 844-855.

Stakeholders Describe Multiple Dimensions of Trade-Offs Among Reforestation Alternatives.

Lazos, E., J. Zinda, A. Bennet-Curry, P. Balvanera, G. Bloomfield, C. A. Lindell, and C. Negra. 2016. Stakeholders and tropical reforestation: challenges, tradeoffs, and strategies in dynamic environments. Biotropica 48: 900-914.

In the Fight Against Climate Change, Reforestation Can Do More Than We Think.

Locatelli, B., C. P. Catterall, P. Imbach, C. Kumar, R. Lasco, E. Marín-Spiotta, B. Mercer, J. S. Powers, N. Schwartz, and M. Uriarte. 2015. Tropical reforestation and climate change: beyond carbon. Restoration Ecology 23: 337-343.

Strengthening Local Governance to Promote FLR.

Mansourian, S., A. Razafimahatratra, P. Ranjatson, G. Rambeloarisao. 2016. Novel governance for forest landscape restoration in Fandriana Marolambo, Madagascar. World Development Perspectives 3: 28-31.

Small-Scale Agricultural Practices Promote Healthy Forest Regeneration.

Martínez-Ramos, M., A. Pingarroni, J. Rodríguez-Velázquez, L. Toledo-Chelala, I. Zermeño-Hernández, and F. Bongers. 2016. Natural forest regeneration and ecological restoration in human-modified tropical landscapes. Biotropica 48: 745-757.

Participatory Planning Essential for Achieving Successful Outcomes in Governing Riparian Forest Restoration.

Meli, P., P.H.S. Brancalion. 2017. Contrasting regulatory frameworks to govern riparian forest restoration in Mexico and Brazil: Current status and needs for advances. World Development Perspectives 5: 60-62.

Leveraging Nature's Potential Can increase Cost-Effectiveness of Large-Scale Forest Restoration.

Molin, P. G., R. L. Chazdon, S. F. Ferraz, and P. H. S. Brancalion. 2018. a landscape approach for cost-effectiven large-scale forest restoration. Journal of Applied Ecology in press. Retrieved from: <u>https://doi.org/10.1111/1365-2664.13263</u>

Shifting Cultivation Fallows Can Contribute to the Philippine National Greening Program.

Mukul, S. A., J. Herbohn, and J. Firn. 2016. Co-benefits of biodiversity and carbon from regenerating secondary forests following shifting cultivation in the upland Philippines: Implications for forest landscape restoration. Biotropica 48: 882-889.

Diverse Contexts Explain Clusters of Expanding Forest Cover in Latin America.

Nanni S., S. Sloan, M. Aide, J. Gressler, D.P. Edwards, C. Grau. 2018. Neotropical reforestation hotspots: Biophysical and socioeconomic typologies of contemporary forest expansion. Global Environmental Change 54: 148-159.

Mammal Populations Recover in Regenerating Forests in Kibale National Park, Uganda.

Omeja, P. A., M. J. Lawes, A. Corriveau, K. Valenta, D. Sarkar, F. P. Paim, and C. A. Chapman. 2016. *Recovery of tree and mammal communities during large-scale forest regeneration in Kibale National Park, Uganda. Biotropica 48: 770-779.*

Involving Landholders on Restoration Project Can Create Diverse Use Landscapes Matrix Capable of Expanding Conservation to Non-Protected Areas and Providing Ecological Benefits. *Raman, T.R.S. ,Mudappa, D. and Osuri, A. 2018. Restoring rainforest remnants: experiences from the Anamalai hills.*

Retrieved from: <u>https://www.currentconservation.org/issues/restoring-rainforest-remnants-experiences-from-the-anamalai-hills/</u>

Many Secondary Forests Die Young in Southern Costa Rica.

Reid JL, Fagan ME, Cattau ME, Lucas J, and Zahawi RA. the ephemerality of regenerating forests in southern Costa Rica. Conservation Letters: e12607.

Uneven Starting Points Complicate Comparisons of Outcomes Between Natural Regeneration and Active Forest Restoration.

Reid, J. L., M. E. Fagan, and R. A. Zahawi. 2018. Positive site selection bias in meta-analyses comparing natural regeneration to active forest restoration. Science Advances 4: eaas9143.

Ecological Restoration in a Changing Biosphere.

Reid, J.L. and Aronson, J., 2017. Ecological Restoration in a Changing Biosphere. Annals of the Missouri Botanical Garden 102(2): 185-188.

Leadership, Environmental Context, and Governance Affect Persistence of Restored Ecosystems.

Reid, J.L., Wilson, S.J., Bloomfield, G.S., Cattau, M.E., Fagan, M.E., Holl, K.D. and Zahawi, R.A., 2017. How Long Do Restored Ecosystems Persist? Annals of the Missouri Botanical Garden 102(2): 258-266.

Up-Scaling the Benefits of Agroforestry Through Farmer Managed Natural Regeneration

Reij, C., and D. Garrity. 2016. Scaling up farmer-managed natural regeneration in Africa to restore degraded landscapes. Biotropica 48: 834-843.

Forests on a Treadmill: Native Forests Lose Ground to Monoculture Plantations.

Rudel, T. K., S. Sloan, R. Chazdon, and R. Grau. 2016. the drivers of tree cover expansion: Global, temperate, and tropical zone analyses. Land Use Policy 58: 502-513.

Forest Transitions Throughout the Ages: Recent Forest Transitions Are often Actively Planned and Rapidly Implemented.

Rudel, T., R. Grau, F. Bongers, R. Chazdon, S. Sloan, P, Meyfroidt, T. Van Holt, L. Schneider. 2019. Whither the Forest Transition?: Climate Change, Policy Responses, and Redistributed Forests in the 21st Century. AMBIO.

Retrieved from: https://doi.org/10.1007/s13280-018-01143-0

Understanding Contexts Where Secondary Forests Persist in Latin America.

Schwartz, N., M. Aide, M. Uriarte, and R. Grau. What conditions promote the persistence of tropical secondary forest in Latin America?

Sloan, S., R. Grau, J. Grasseur, and M. Aide.The novelty of tropical forest recovery and its relation to remnant forests in Latin America. Global Environmental Change. Forthcoming.

The Forest Transformation: Tropical Planted Tree Cover Shows inconsistent Regional Patterns of Gain and Loss.

Sloan, S., L. Schneider, T. Rudel, R. Grau, D. Kim, Z. Li, R. Chazdon, F. Bongers, P. Meyfroidt. 2018. the Forest Transformation: Planted Tree Cover in 11 Tropical Countries Show inconsistent Patterns of Tree Cover Gain and Loss. Global Environmental Change.

The Value of Community Managed Agroforests and Second-Growth Forests as Restoration Approaches.

Souza, S. E., E. Vidal, G. d. F. Chagas, A. T. Elgar, and P. H. Brancalion. 2016. Ecological outcomes and livelihood benefits of community-managed agroforests and second growth forests in Southeast Brazil. Biotropica 48: 868-881.

Natural Regeneration on Ecosystem Services Provision and Habitat Availability on a Landscape

Context.

Strassburg, B. N., F. S. M. Barros, R. Couzeilles, A. Iribarrem, J. S. Santos, D. Silva, J. B. B. Sansevero, H. Alves-Pinto, R. Feltran-Barbieri, and A. Latawiec. 2016. the role of natural regeneration to ecosystem services provision and habitat availability: a case study in the Brazilian Atlantic Forest. Biotropica 48: 890-899.

A Novel Restoration Prioritization Approach to Save one of the Most Threatened Ecosystems on Earth.

Strassburg, B., H. Beyer, R. Crouzeilles, A. Iribarrem, F. Barros, M. Ferreira de Siqueira, A. Sánchez Tapia, A. Balmford, J. Boelsums, P. H. S. Brancalion, E. N. Broadbent, R. L. Chazdon, A. Oliveira Filho, T. Gardner, A. Gordon, A. Latawiec, R. Loyola, J. P. Metzger, M. Mills, H. P. Possingham, R. R. Rodrigues, C. A. de Mattos Scaramuzza, F. Scarano, L. Tambosi, and M. Uriarte. 2018. Strategic approaches to restoring ecosystems can triple conservation gains and halve costs. Nature Ecology & Evolution in press.

Beyond the Biophysical: the Potential for NR Depends on Socio-Economic, Political, and Regulatory Factors.

Uriarte, M., and R. L. Chazdon. 2016. incorporating natural regeneration in forest landscape restoration in tropical regions: Synthesis and key research gaps. Biotropica 48: 915-924.

How Will Climate Change influence Forest Recovery.

Uriarte, M., N. Schwartz, J. S. Powers, E. Marín-Spiotta, W. Liao, and L. K. Werden. 2016. Impacts of climate variability on tree demography in second growth tropical forests: the importance of regional context for predicting successional trajectories. Biotropica 48: 780-797.

Strategies, Adaptations and innovations for Governing Tomorrow's Forest Landscapes. *Wilson, S. J., and D. Cagalanan. 2016. Governing restoration: Strategies, adaptations and innovations for tomorrow's forest landscapes. World Development Perspectives 4: 11-15.*

Viewing Forest Transition Outcomes Through the Lens of Ecosystem Services.

Wilson, S. J., J. Schelhas, R. Grau, A. S. Nanni, and S. Sloan. 2017. *Forest ecosystem-service transitions: the ecological dimensions of the forest transition. Ecology and Society* 22: 38.

Introducing Communally Owned and Managed Reserves Enabled Smallholders to Restore Cloud Forests.

Wilson, S.J. 2016. Communal management as a strategy for restoring cloud forest landscapes in andean Ecuador. World Development Perspectives 3: 47-49.

The Restoration Literature Is Diverging Despite the Need to Link Social and Ecological Perspectives.

Wilson, S. J., R. Chazdon, J. Herbon, D. Lamb, L. Ota. the two forest restoration worlds – social science meets restoration ecology. *Restoration Ecology. Forthcoming.*