

## Harnessing the potential of trees on farms for meeting national and global biodiversity targets

<https://treesonfarmsforbiodiversity.com/rwanda/>

With increased fragmentation of landscapes and habitat loss, protected areas alone may not be sufficient for preventing biodiversity loss in much of the world.

'Sustainable management' of the entire landscape, including agriculturally productive areas is needed.

Aichi Target 7: 'area of agricultural ecosystems under sustainable management' reflects the well-established cause-effect relationship between the presence of resources-conserving, sustainable, management practices and improvements in biodiversity status.



### Project goal

Increasing the number of trees on farms helps conserve and restore biodiversity and improves agricultural productivity. We work with communities, governments and NGOs to promote this approach in Honduras, Indonesia, Peru, Rwanda and Uganda.



### Activities

1. Increase our knowledge of the links between trees, agriculture and biodiversity
2. Provide tools for practitioners, operational road maps and investment scenarios for five countries
3. Prepare a biodiversity assessment tool to measure the contribution of trees on farms to biodiversity.
4. Assess a range of funding and investment options for increasing investment in trees in agriculture
5. Help create road maps and business plans for local partners
6. Through this, we will help countries achieve Aichi Target 7: 'By 2020 areas under agriculture, aquaculture and forestry are managed sustainably, ensuring conservation of biodiversity'



### Implementing organization

Global: International Centre for Research in Agroforestry (ICRAF/World Agroforestry).  
Rwanda: ICRAF

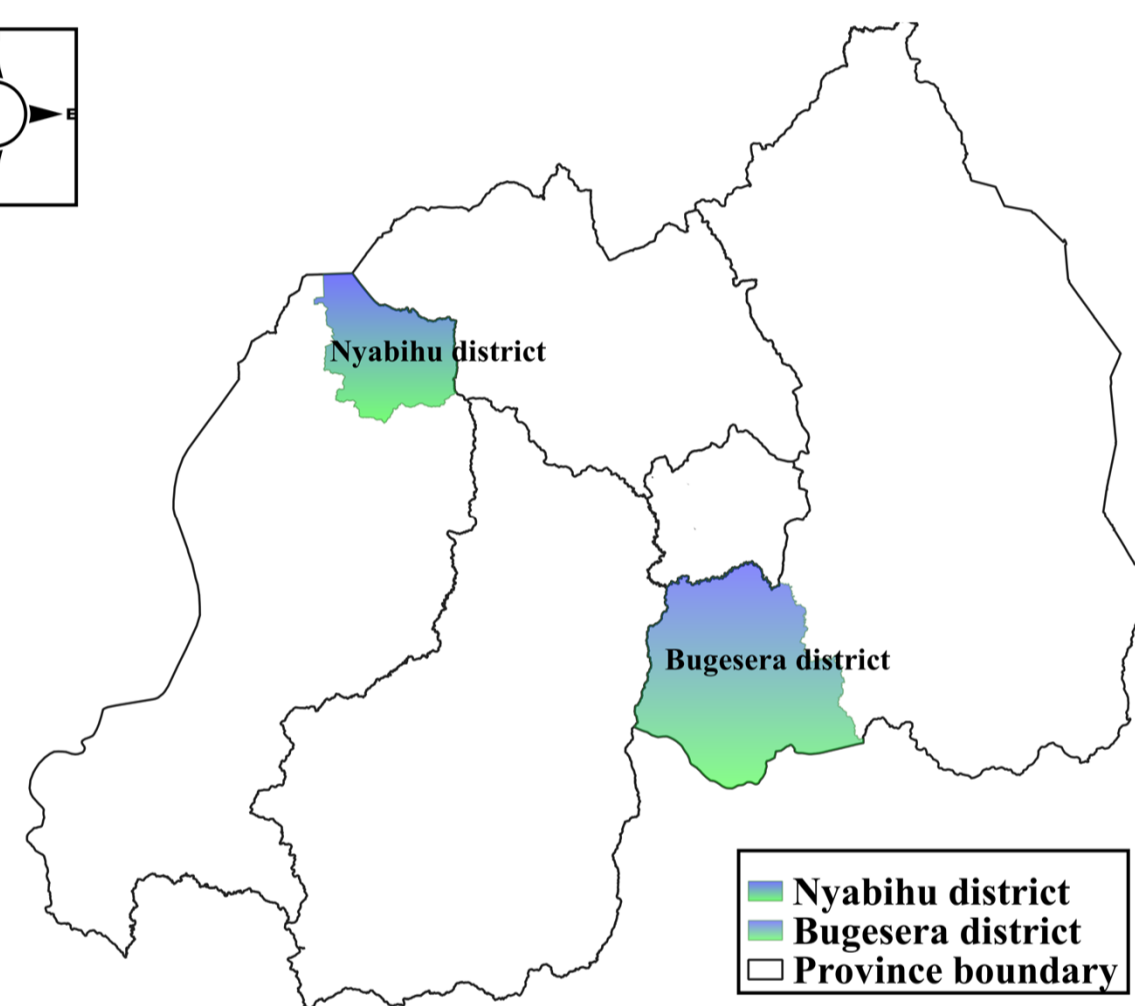
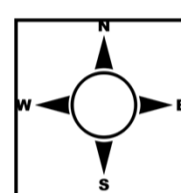


### Partner institutions

International Union for Conservation of Nature, Rwanda.  
Centro Agronómico Tropical de Investigación y Enseñanza, Costa Rica;  
Center for International Forestry Research, Indonesia; Georg August Universität, Göttingen, Germany; Leibniz Universität, Hannover, Germany.



## RWANDA: STAKEHOLDER ENGAGEMENT PLAN



### Targets for Trees on Farms

Study site	Land-use system	Target for trees on farms
Rwanda	Existing agroforestry systems on private farms	Tree management improved for water conservation
	Seasonal crops on private farms	Fruit trees on farms increased
	Public lands with timber and pole production	Tree diversity on farm boundaries increased for firewood production Indigenous tree species introduced for fodder production
Gishwati	Riparian/riverbank stabilisation	Diversity of species increased, with an emphasis on indigenous species
		Tree cover increased through incentives such as fodder, stakes for climbing beans and increased farm productivity Tree diversity increased in agricultural landscapes Landscape connectivity increased through trees on farms Trees on farms increased for soil conservation and water management to address soil erosion Indigenous tree species introduced for fodder production
		Fully restored riparian reserves with existing laws fully implemented

### Projects for leveraging

Project	Implementers
Building Resilience of Communities Living in Degraded Wetlands, Forests and Savannas of Rwanda through an Ecosystem-Based Adaptation Approach (UN Environment Least Developed Countries Fund)	Rwanda Environment Management Authority
Sebeya catchment restoration	IUCN
Establishment of Gishwati-Mukura corridor	Rwanda Environment Management Authority
Forest and Landscape Restoration project	World Vision
Trees for Food Security project	ICRAF
Regreening Africa project	ICRAF



Stakeholders in Rwanda

#### National

- Ministry of Agriculture and Animal Resources; *Interest:* Food security and productivity
- Ministry of Environment; *Interest:* Forestry and agroforestry
- Rwanda Environment Management Authority; *Interest:* Tree planting and landscape restoration
- Rwanda Water and Forestry Authority; *Interest:* Forestry and agroforestry development
- Rwanda Development Board; *Interest:* Biodiversity conservation in protected areas
- Rwanda Agriculture and Animal Resources Development Board; *Interest:* Food security and productivity

#### Local (Gishwati)

- Joint Action for Development Forum
- District government
- Sector government
- Innovation platforms/farmers' cooperatives (one each innovation platform in Gishwati and Bugesera)
- National Agricultural Export Development Board

#### Local (Bugesera)

- Joint Action for Development Forum
- District government
- Sector government
- Juru Cooperative (avocado and mango trees)
- Rweru Cooperative (environmental protection and tree tomato production)
- Musenyi Cooperative (green manure and stakes for climbing beans)
- Mareba Cooperative (green manure and stakes for climbing beans)
- Nyamata Cooperative (green manure, stakes for climbing beans and environmental protection)
- Gako beef cattle project (30-50 ha consolidated land leased to private investors)
- Livestock cooperatives



Duration: 12/2017 - 11/2021



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# RWANDA

## engagement plan

Scale	Activity	Stakeholders	Description and action	Timeline
National	National workshop on achieving restoration targets through agroforestry	MoE, MINAGRI, RWFA, REMA, IUCN, NAEB, RDB, RAB, BRD, EADB, BK, EU, Imbaraga	<ul style="list-style-type: none"> <li>One-day workshop to explore opportunities and entry points for upscaling agroforestry. Links with NBSAP will also be explored.</li> <li>Title: Achieving Rwanda's restoration targets through agroforestry.</li> <li>Keynotes and expert panel</li> <li>NAEB on fruit-tree seedling production</li> <li>RWFA on woodlot program</li> <li>IUCN on landscape restoration</li> </ul>	February 2020
	Agroforestry taskforce meeting	RWFA, WVR, MINAGRI, RAB, IUCN, FAO	To discuss the terms of reference of the National Agroforestry Taskforce	February 2020
	Joint workshop with GIZ	GIZ Wood value-chain actors	Workshop with foresters and wood value-chain actors to explore possibilities for indigenous trees rather than eucalyptus in the wood industry	April 2020
	Training of extension agents	Nyabihu District, Bugesera District, Gatsibo District, RWFA, REMA, MINAGRI, RAB	Training on biodiversity assessment tool	March 2020
Gishwati	Meeting with district authorities and partners	JADF Nyabihu	<ul style="list-style-type: none"> <li>Dissemination of the project messages</li> <li>Participation in the forum</li> </ul>	January – June 2020
	Involve innovation platforms/farmers' cooperatives	Kadahenda innovation platform	<ul style="list-style-type: none"> <li>Include in communication material being developed by IUCN</li> <li>Assess vision, mission and activities of the innovation platforms with regards to trees on farms</li> </ul>	February 2020
	Initiatives for trees in coffee and tea plantations	NAEB	<ul style="list-style-type: none"> <li>Produce an infographic for policy makers from the workshop on trees' carbon sequestration in coffee farms (showing potential species, revenues and 'killer facts')</li> <li>Develop a project on organic tea, building on the recent workshop on Innovation for Organic Tea by Cranfield University</li> <li>Liaise with ICRAF East and Central Asia office in Kunming on <i>Alnus</i> sp with tea in China</li> </ul>	January – March 2020
	Develop links with the project, Building Resilience of Communities Living in Degraded Wetlands, Forests and Savannas of Rwanda through an Ecosystem-Based Adaptation Approach	REMA	Meet to identify their challenges and value entry points	January 2020
	Develop links with Sebeya Catchment IWRM and restoration project	IUCN	Meet to identify entry points	September 2019
Bugesera	<i>Project Target B1: Better tree management for water conservation in existing agroforestry systems</i>			
		Juru Cooperative and Rweru Cooperative	Produce communication material on tree management	December 2019 – March 2020
	<i>Project Target B2: Increase fruit trees on farms</i>			
	Enhancing existing seed supplies	MINAGRI, NAEB, Juru Cooperative, Rweru Cooperative	<ul style="list-style-type: none"> <li>Discussion with NAEB on how to produce quality planting materials (seeds, root stock and scions)</li> <li>Check if tree nurseries exist</li> <li>Invite MINAGRI and NAEB for the national workshop in November to talk on fruit production and dissemination</li> </ul>	January 2020
	Strengthening market links	Juru Cooperative and Rweru Cooperative	<ul style="list-style-type: none"> <li>Linking farmers to markets</li> <li>Cost calculation of the business plan and model for Rural Resource Centres and Innovation Platforms (linked to WP3)</li> <li>Interaction with innovation platforms to analyse needs of fruit producers through a participatory approach (linked to WP1)</li> <li>Stocktake the value-chain analysis by Regreening Africa project and develop a strategy on how to run farmers' cooperative as businesses</li> </ul>	February – June 2020
	Capacity development	Juru Cooperative and Rweru Cooperative	<ul style="list-style-type: none"> <li>Develop communication material</li> <li>Needs assessment for capacity building of fruit producers (linked to WP1)</li> <li>Involvement of extension agents and leading farmers</li> </ul>	February – June 2020
	<i>Project Target B3: Work with Government to increase diversity in public lands for timber and pole production</i>			
	Collaborate with authorities and partners in the district	JADF Bugesera	<ul style="list-style-type: none"> <li>Dissemination of the project's messages</li> <li>Participate in the forum</li> </ul>	September 2019 – February 2020
	Participate in the development of strategies for tree diversification	RWFA and REMA	<ul style="list-style-type: none"> <li>Invite RWFA for the national workshop to discuss the woodlot program</li> <li>Identify indigenous trees to promote:                             <ol style="list-style-type: none"> <li>Farm inventory</li> <li>FAO databases</li> <li>Standards of living, World Bank</li> <li>IUCN Red List species</li> <li>ICRAF dataset</li> <li>Land Degradation Surveillance Framework by Regreening Africa Project</li> </ol> </li> <li>Matching utility to indigenous tree species</li> <li>Participatory ranking of Red List species (choice experiments, WPI)</li> <li>Find opportunities to integrate trees on farms (develop a road map for the strategy under NBSAP)</li> <li>Engage REMA for the road map mid-2020</li> </ul>	February – June 2020
	<i>Project Target B4: Increasing tree diversity on farm boundaries for firewood production</i>			
Building on initiatives of ACIAR project to diversify trees on farms	Musenyi Cooperative Mareba Cooperative Nyamata Cooperative	Discussion with ACIAR partners (World Vision and RAB) on the diversification of trees on farm boundaries	September 2019 – February 2020	
<i>Project Target B5: Introducing indigenous trees for fodder production</i>				
Meeting with Gako beef cattle project	Gako beef cattle project	Meeting with project leaders to identify entry point on fodder production	January 2020	

### ACRONYMS AND ABBREVIATIONS

BRD: Rwanda Development Bank  
 BK: Bank of Kigali  
 EADB: East African Development Bank  
 Imbaraga: Imbaraga Farmers' Organization  
 JADF: Joint Action for Development Forum  
 MoE: Ministry of Environment  
 MINAGRI: Ministry of Agriculture and Animal Resources

NAEB: National Agricultural Export Board  
 RAB: Rwanda Agriculture and Animal Resources Development Board  
 RDB: Rwanda Development Board  
 REMA: Rwanda Environment Management Authority  
 RWFA: Rwanda Water and Forestry Authority  
 WVR: World Vision Rwanda



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