



Tree Planting Stakeholder analysis in the Ugandan Albertine Rift

Charles L. Tumuhe, Juliet Kiguli

Research

Abstract

Background: Trees provide ecosystem services, for example, by preserving soil fertility and sequestering carbon. They contribute 8.7 percent to Uganda's national economy. Due to the ecosystem services trees provide, several stakeholders in Uganda have intervened to increase tree cover in the landscape. These stakeholders include; Ministry of water and Environment, National Forestry Authority, World vision Uganda (WVU) and licensed individual tree planters in forest reserves. The success of their interventions depends on several factors. Among these factors, probably, the least studied is the influence of different stakeholders in promoting tree planting. This paper assesses the different stakeholders in tree planting in Kiryanga Sub County, Albertine rift region, Uganda.

Methods: The analysis was conducted in a stakeholder workshop to identify stakeholders' potential roles, relationships, power and influence on tree planting. The stakeholder; register, analysis-grid, and matrix were respectively used to identify and categorize stakeholders.

Results: The identified stakeholders were; community leaders, Civil Society Organizations (CSOs), government institutions, individual farmers and farmer groups. Farmers, Local Government (LG) CSOs; WVU and Uganda Rural Development and Training (URDT) were important stakeholders in tree planting. The LG will provide seedlings, train, and guide and mobilize farmers during tree planting. WVU will promote regenerating trees from stumps, roots, and naturally growing tree seedlings. URDT will sensitize and train farmers in tree planting. Farmers also have to be engaged with to provide land and labour for tree planting.

Conclusion: Tree planting interventions ought to be implemented after thorough understanding and engagement of these key stakeholders.

Keywords: stakeholder analysis, Albertine Rift, tree planting, forest cover

Mubugufu

Emiti eyamba obuhangwa kulinda eitaka hamu nokwihamu orwoya orubi. Emiti ereta sente ezikuhikya obucweeka 8.7 hakikumi omu Uganda. Aha bw'emigaso y'emiti, baangi omu Uganda barugireyo okwongenzaaho hali emitii eyebayairwe omu mwanya ogulikwonka. Ebitongole nka ekihanda ekwa amaizi na ebitwehingilize, ekitongole kyebibira, Warudi Vizoni hamu abantu kinoomu abahairwe ebaruha kubyaara emitii omubibira. Obusinguzi bwabu niburuga hali bingi. Abakukwatwaaho abembaganiza omukubyara emitii tibasomerwe kumanya wa ekikumara. Okuseruliriza kunu kuli hali abakukwatwaho omukubyara emitii omwi bohorra lya Kiryanga omu ekicweeka kya enyanja mwitanzige, Uganda.

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Okucencura kukakorwa omumusomo kumanyirra emirimo eya abakukwatwaho, obukwate bwabu, amaani nobusobozi baine omukubyara emiti. Orukarra, akabokisi hamu n'ekimeeza bikakozesebeza kumanyirra, no'kusengeneka abakukwatwaho. Abakukwatwaho abakuru nibo, abebembezi, ekitongole nka Araditi, warudi vizoni, gavument, abalimi, hamu na ebitebe bya abalimi. Gavumenti y'okuleeta endokwa, kutendeka kuhabura, n'okujugumbya abalimi kubyara emiti. Warudi vizoni y'okumeza emiti habikonge. Araditi y'okujugumbya kandi netendeka abalimi. Abalimi nibo bakuhayo eitaka kandi nibabyara emiti. Okubyara emiti kwoona nikutekwa kusoka nokwetegereza hamu n'okukwataniza n'abakukwatwaho abakuru boona.

Ebigambo ebikuru: Kucencura abakukwatwaho, Ekiweeka ekya enyanja Mwitanzige, kubyaara emiti, omwanya oguroho ebibira

Background

Trees, forests and woodlands cover about 14 percent of Uganda's land surface, but the government is anticipating to expand it to 24 percent by 2040 (National Planning Authority 2013). Uganda also pledged to restore 2.5 million hectares of deforested land by 2020 in the Bonn Challenge (Ministry of Water and Environment 2016a). This is because trees provide ecosystem services like regulating climate, preserving soil fertility and sequestering carbon (Salmond *et al.* 2014). Furthermore, they contribute 8.7 percent to Uganda's Gross Domestic Product (Ministry of Water and Environment 2016b) and thus conserving them is vital to peoples' livelihoods. Therefore, there have been several efforts by different stakeholders to plant trees in Uganda notably, National Forestry Authority (NFA), Ministry of water and environment (MWE), World Vision Uganda (WVU) and licensed private tree planters in forest reserves. Uganda has also taken up the Reducing Emissions from Deforestation and forest Degradation + the role of conservation, sustainable management of forests and enhancement of forest carbon stocks (REDD+) to enhance forest cover restoration (Ministry of Water and Environment 2016b) through tree planting. However, these stakeholders' efforts have not attained anticipated success because tree cover is still reducing. Uganda lost more than half of its forests in 25 years due to, among other factors, uncoordinated stakeholders and inadequate funds for conservation efforts (IUCN 2018). The forest cover may not be restored to the anticipated 24 percent by 2040 unless key stakeholders are absorbed in all tree planting processes.

The efforts to restore the lost forest cover should involve involvement of several stakeholders including government, development partners and Civil Society Organizations (CSOs) both local and international such as International Union for Conservation of Nature and Natural Resources (IUCN) (IUCN 2018). A stakeholder in tree planting is an individual, interest group, or organization, who may affect, be affected by, or perceive itself to be affected by a decision, activity, or outcome related to tree planting (Weperen 2013). Stakeholders in forest conservation could be farmers who own the planted forests, farm workers who provide labour for tree planting, middle men for tree products, extension workers, environmentalists, politicians, the forestry authority (NFA), government, CSOs, academics and researchers, donors, consultants and community based organizations. Stakeholders influence tree planting decisions for example when and which tree species to plant. The stakeholders have different power, influence and importance. According to Mayers (2005), importance of a stakeholder is understood in terms of their role in achieving anticipated results. Influence is judged in terms of the power they can exert over tree planting process and outcome. Stakeholder power can be understood as the extent to which stakeholders are able to persuade or coerce others into making decisions and following certain courses of action. Power may derive from the stakeholders' position or possession (Mayers 2005). For any tree planting program, stakeholder identification and their eventual participation should be considered at the beginning of tree planting interventions. Engagement with stakeholders early in decision-making is indispensable if forest cover is to be restored through a sustainable and participatory tree-planting process (Lin & Lin 2015). Stakeholder analysis identifies people and institutions that may support or oppose the planned interventions and how each can be dealt with (Mayers 2005). Stakeholder analysis should therefore always be prioritized to avoid inflaming conflicts when implementing tree planting interventions (Weperen 2013). This study focused on tree planting stakeholders in Kiryanga Sub County (SC), located in the Albertine rift region, Uganda.

Materials and Methods

Description of study area

Kiryanga SC ($1^{\circ} 5' 40''$ N, $31^{\circ} 3' 32''$ E) is located in the Ugandan Albertine rift region (Figure 1). The Uganda portion of the Albertine rift extends from Budongo Forest/Murchison Falls National Park in the north down to Mgahinga National park in the south. There are 79 central forest reserves and 21 local forest reserves managed by the districts (Plumptre

2002). Modified Equatorial vegetation type mainly covers Kiryanga SC (Langdale *et al.* 1964). This type of vegetation used to be equatorial in nature but has been modified as a result of human activity (Kakuru *et al.* 2014). The rainfall in Kiryanga SC ranges from

1000 mm to 1500 mm and temperature, 15°C to 30°C. It has 24,622 people and 5,483 households (HH) (Uganda Bureau of Statistics 2016).

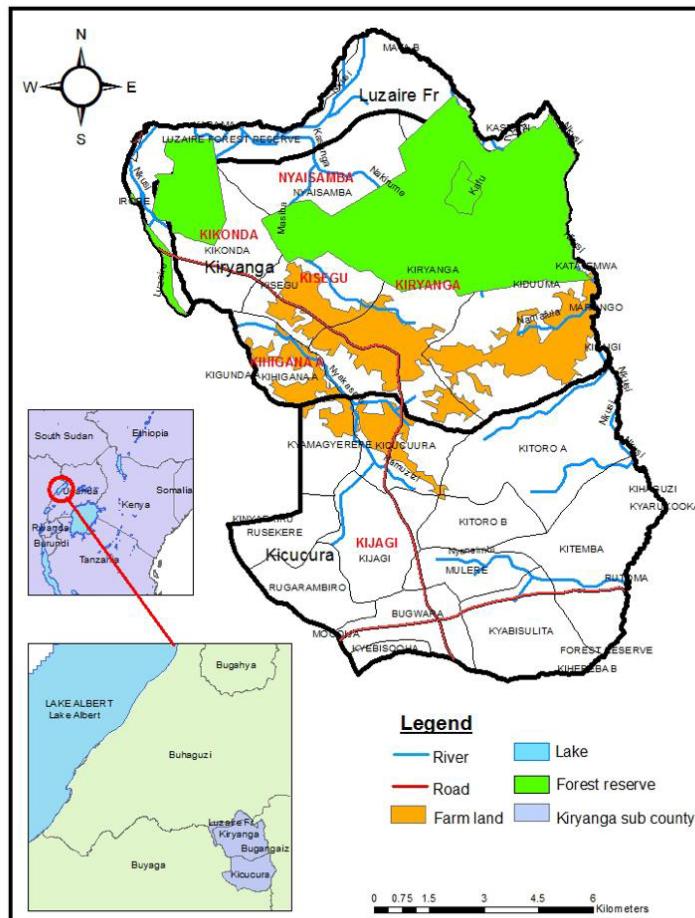


Figure 1. Location of the study area. The maps show location of the Albertine rift region and Kiryanga SC (study area)

Firstly, Kiryanga SC was selected because its rate of forest cover loss is 10 percent per year and about 5 times higher than the Uganda (1.8 percent) national forest cover loss rate (Ministry of Water and Environment 2016b). Secondly, it is located in the Albertine Rift which is home to over 1100 endemic plant and animal species and has more registered species of vertebrates than any other part of Africa. The Albertine Rift region is very important for biodiversity conservation in western Uganda. It is an endemic bird area and biodiversity hotspot. It also contains some of the richest areas in Africa for mammal and bird species. Conservation International listed the Albertine Rift as one of the world's most endangered areas, based on levels of

species endemism and rates of habitat destruction (National Environmental Management Authority 2009). Kiryanga SC is one of the eight sub counties, the Murchison-Semliki REDD+ Project has been involved in incentive-based tree planting mainly using free tree seedlings and cash incentives (Wieland 2012). The other stakeholders include; National Environmental Management Authority (NEMA), World Wide Fund for nature (WWF), Uganda Rural Development and Training program (URDT), WVU and Chimpanzee Sanctuary and Wildlife Conservation Trust (Gross-Camp *et al.* 2012). Thirdly, four of the sixteen forest reserves in the Kagadi sector border with Kiryanga SC and these

house chimpanzees living outside protected areas (Nyakana & Nyakana n.d.).

The qualitative stakeholder (SH) analysis study design was undertaken (Hyder *et al.* 2010, Namazzi *et al.* 2013, Richards & Panfil 2011). SH analysis was carried out in March 2018 in Kiryanga SC, Western Uganda in a three-step multi-stakeholder process. First, researcher and key informants (n=11) developed a stakeholder register. The key informants were District and SC production staff (technical and political). Second, categorizing stakeholders using the stakeholder analysis grid (Figure 2). Stakeholders were put in five categories by same participants (used in step one) as described below; a) driver-stakeholders have high power, influence and high agreement to tree planting practice and promotes it; b) blocker-stakeholders have high levels of power and influence in tree planting, but highly oppose the practice; c) supporter-stakeholders promote the practices but whose influence and power is limited (on their own); d) bystander-stakeholders disagree to the practices but with low influence and support; e) abstainer-stakeholders are neutral to the practices, but may or may not have influence (Namazzi *et al.* 2013).

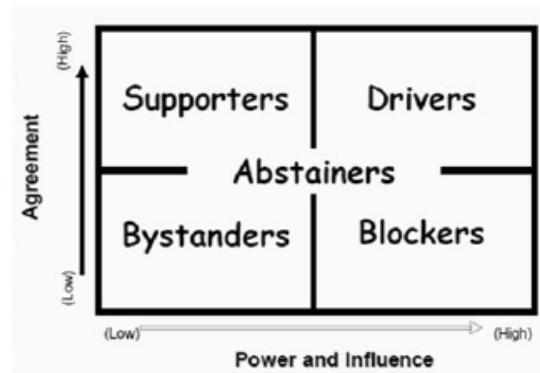


Figure 2. Stakeholder analysis grid for categorizing stakeholders. The category of a stakeholders depends on their level of power and influence and agreement in tree planting.

The percentage of each stakeholder category was computed. Third, stakeholder characteristics were analyzed in a stakeholder workshop (for only drivers and supporters). The characteristics related to their potential roles, interests, and positions in tree planting. The participants also agreed on the suitable strategy to deal with each stakeholder. The strategies to deal with SH were in terms of empowering them, engaging them continuously, involving them further and consulting them further. To get the relationship, importance and influence of the stakeholders, circular and triangular pieces of different sizes were used (i.e. small circle/triangle =

very important/influential, middle sized circle/triangle = significant importance/influence and large circle/triangle = very important/influential. The cut pieces were displayed on a news print and the proximity or overlapping (touching) of circles represented the relationship among stakeholders. Images of responses were captured and later transcribed, written in Microsoft word and thematically analyzed (Richards & Panfil 2011).

Results

Stakeholders in tree planting in Kiryanga Sub County - Supporters, drivers and bystanders

According to Table 1, the identified stakeholders in tree planting were leaders (i.e. religious, cultural and political), CSOs (WVU and URDT), government (SC, District Local Government (LG), and NFA) farmers and Collaborative Forest Management (CFM) farmer groups and NFA. Apart from the district LG, the stakeholders were from within the study area. Majority of the stakeholders were supporters (36 percent), drivers (36 percent) and bystanders (28 percent). There were no abstainers and blockers. These stakeholders complement each other but have different power, influence, and importance. Stakeholders' power is shown in Table 2.

Importance and influence of stakeholders

Figure 3 shows that government (District and SC) were the most important stakeholders (with biggest circles). The government also had the biggest power and influence (biggest triangles). Farmers and CSOs had moderate importance. The CSOs had moderate power and influence but farmers' power and influence were the least. NFA was the least important stakeholder and with least power and influence in tree planting. A highly important stakeholder with high power did not necessarily have high influence in tree planting but each one had a unique interest in tree planting.

Interests of stakeholders in tree planting

All stakeholders had interest in tree planting in several ways. The SC and District LG are concerned about improvement in societal wellbeing through revenue generation from tree planting. WVU and URDT envision tree planting as one of the means of improving children's and women's welfare respectively. NFA wants farmers to plant trees because they can produce farm-based wood products thereby sparing central-forest trees. Farmers and their groups are concerned about improved peoples' wellbeing from incomes and good climate obtained from tree planting. Stakeholders' interests and roles were interlinked but less conflicting and these determined the relationship

among the stakeholders regarding tree planting
(Table 3)

Table 1. Driver, supporter and bystander stakeholders in tree planting in Kiryanga SC. The classification is based on stakeholders' level of agreement and influence in tree planting.

Stakeholder in tree planting	Influence in tree planting	Level of agreement	Classification of SH
Cultural leaders	Moderate	Moderate	By-standers
Individual farmers	Low	High	Supporters
Local council (LC) leaders	Low	High	Supporters
CFM farmer groups	Low	High	Supporters
Non-governmental organizations (URDT World vision Uganda)	High	High	Drivers
Government institutions (District LG, Sub County LG, NFA)	High	High	Driver
Nursery bed operators	High	High	Drivers

Table 2. Stakeholders' power, influence and importance in tree planting

Stakeholder	Importance	Power and Influence
Kiryanga Sub County LG	High	High
Kagadi District LG	High	High
Farmers	Moderate	Low
CSOs (WVU, URDT)	Moderate	Moderate
NFA	Low	Low

Table 3. Supporter and driver stakeholders in tree planting in Kiryanga SC

Stakeholder in tree planting	Potential roles of SH in tree planting	SH interests	Classification of SH
Community leaders	Lobby, sensitize farmers, monitor tree planting projects	Improved HH income	Supporter
Farmers & their groups	sensitize, plant trees	revenue, tree products	Supporter
URDT (CSO)	Sensitize farmers, supply tree seedlings	the seedling market, FR conservation	Supporter
WVU (CSO)	Sensitize farmers to plant, supply seedlings, monitoring	good environment for the children	Driver
Kiryanga SC (lower LG)	Lobby, sensitize & mobilize farmers, training farmers, monitoring & seedlings supply	increased tax base through increased HH income	Driver
Kagadi District (Local government)	Seedling supply, lobbying, sensitize, monitor, guide tree planting and felling, training farmers	increased tax base, FR conservation	Driver
NFA (government institution)	Seedling supply, protection of trees, training, sensitize, monitor	FR conservation	Driver

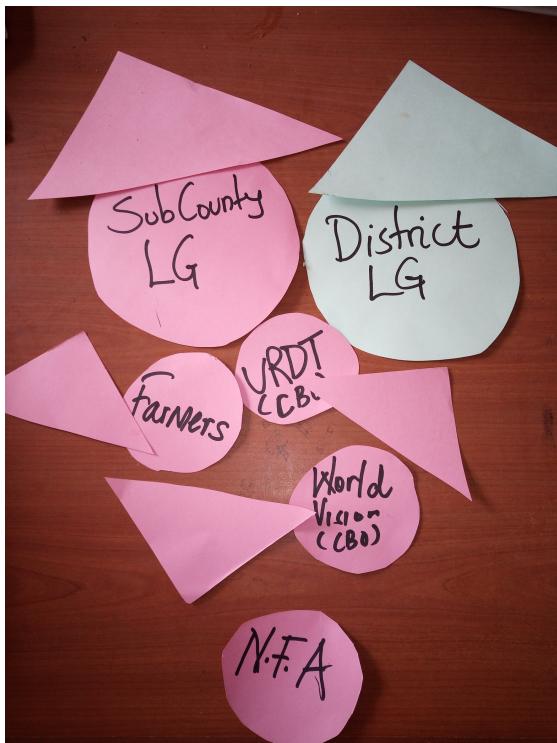


Figure 3. Power, importance, influence of stakeholders: Blue color = outsider stakeholder; Pink color = insider stakeholder; Circle = importance of stakeholder; Triangle = power and influence. The figure also shows relationship among the stakeholders in tree planting. Stakeholders whose circles are touching or closer are more related in terms of their roles in tree planting

Relationship among stakeholders

The degree of relationship among stakeholders was shown by circular objects in Figure 3. The circles for the government (District, SC), farmers and URDT (a CSO) were touching implying that they all have a significant relationship among each other. Unlike NFA (a government authority), WVU (a CSO) was closely related to all stakeholders (Figure 3). All stakeholders except NFA had high capacity and motivation to promote tree planting. These stakeholder relationships were only in regard to tree planting and thus the “related stakeholders” may not be related in other aspects.

Strategy to deal with each Stakeholder

The strategy suggested to deal with each stakeholder was according to their importance and influence. The community leaders and government (SC, District, and NFA) ought to be continuously engaged in planning activities like budgeting and activity scheduling for tree planting interventions for their technical guidance. The CSOs (URDT and WVU) ought to be involved further in these planning

activities to receive their support. The farmers and their groups (e.g. CFM groups) ideally need to be involved in all tree planting processes but need to be first empowered through training on the importance and recommended practices of tree planting. They may also be empowered with farm inputs mainly tree seedlings (Table 4).

Table 4. Strategy to deal to deal with each stakeholder

Strategies to deal with each SH	Stakeholder in tree planting
Empower and involve in all processes	Farmers & their CFM groups
Involve further in planning	URDT (CSO), WVU (CSO)
Continuously engage in planning	Kiryanga SC (government) Kagadi, District (government), NFA (government), Community leaders
Consult further	Kiryanga SC (government) Kagadi, District (government), NFA (government), Community leaders

Discussion

The most important stakeholders were; leaders, farmers and their groups, CSOs (URDT and WVU), and government institutions. The government was the most important, powerful and influential stakeholder. This is because it is mandated to train, guide and mobilize farmers during tree planting. Government also supplies tree seedlings and eventually monitors their beneficiaries. CSOs (WVU, URDT) were moderately important. WVU promotes the Farmer Managed Natural Regeneration (FMNR) approach in Kiryanga SC. FMNR is the regeneration of trees from stumps, roots, and naturally growing seedlings. The aim of WVU is to create a favorable environment for the welfare of children (World Vision Uganda 2014). URDT houses Kagadi Kibaale Community Radio (KKCR) which runs weekly environmental radio talk shows to sensitize and train farmers in the study area on tree planting (Kakuru et al. 2014). Farmers and their CFM groups are important because they are to plant trees, provide land and also sensitize others to plant. The CFM groups work with conservation agencies and government institutions to promote tree planting and forest conservation (National Environmental Management Authority 2016). The identified tree planting stakeholders depend on existing institutional and political structure in the community and procedure followed during stakeholder analysis

as reported in previous studies (Peskett *et al.* 2011). Stakeholders differ in potential roles, power, and influence. Some stakeholders are more influential but with limited power to influence key tree planting decisions. Others have high power (e.g. political leaders) but may not easily influence tree planting. This is why tree-planting project-managers make choices of which stakeholders and when to engage them to reduce conflicts among them (Weperen 2013). A proper stakeholder engagement framework determines who should participate, when and how (Luyet *et al.* 2012). The most influential and powerful stakeholders are ideally engaged earlier and throughout the entire tree planting process. Stakeholders have diverse interests and goals. A governance framework structure ensures stakeholders joint participation and harmonizes their interests for a win-win situation. It is common to assemble all legitimate stakeholders together due to their complementary potential roles (Lin & Lin 2015) but a balance of their interests is inevitable (Mayers 2005).

Conclusion

Tree planting requires the engagement of various stakeholder categories. The important stakeholders to be engaged within tree planting interventions in the study area include; Kiryanga SC and Kagadi District Local Governments and WVU and URDT CSOs. These have complementary roles though varying interests, power and influence. Generally, all government institutions and CSOs in environmental conservation need to be consulted and engaged right from the beginning of tree planting processes to ensure tree planting interventions succeed in Uganda. Farmers should be empowered through training and sensitization meetings to get their maximum support in terms of providing land and labour for tree planting. The results will contribute to the attainment of the Bonn challenge commitment of Uganda by reinforcing the strategies of improving involvement and coordination of all stakeholders. A multi-stakeholder innovations platform should be established to bring and keep these stakeholders together and enable them to enhance each other's capacities. A stakeholder analysis by only independent analysts may reveal more stakeholders and worth undertaking in other studies.

Declarations

List of abbreviations:

CFM: Collaborative Forest management

CSO: Civil Society Organization

FMNR: Farmer Managed Natural Regeneration

IUCN: International Union for Conservation of Nature and Natural Resources

LC: Local council

LG: Local Government

MWE: Ministry of water and environment

NEMA: National Environmental Management Authority

NFA: National Forestry Authority

NORAD: Norwegian Agency for Development

REDD+: Reducing Emissions from Deforestation and forest Degradation + the role of conservation, sustainable management of forests and enhancement of forest carbon stocks

SC: Sub County

SH: Stakeholder

SPGS: Saw log Production Grant Scheme

URDT: Uganda Rural Development and Training

WVU: World Vision Uganda

Ethics approval and consent to participate:

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