Mountain gorilla tourism generating wealth and peace in post-conflict Rwanda

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Mountain gorilla tourism generating wealth and peace in post-conflict Rwanda

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Abstract

Today only around 880 mountain gorillas (Gorilla beringei beringei) inhabit the Afromontane forests shared by Rwanda, Uganda and the Democratic Republic of the Congo (DRC). In this region, mountain gorillas serve as flagship species, attracting public support and international tourists as well as drawing attention to their habitat. This paper examines the prominent issues in mountain gorilla conservation and nature-based tourism in Rwanda in a post-conflict recovery context. Also analyzed are the critical issues of restoring and developing the capacities of institutions, improving the transboundary dialogue, and developing cooperation for the management of natural resources.

Keywords: Nature-based tourism; mountain gorillas; Rwanda; biodiversity conservation; transboundary cooperation.

1. Introduction¹

This paper concerns the prominent issues in mountain gorilla conservation and nature-based tourism in Rwanda in a post-conflict recovery context. The objectives of the paper are to examine how conservation efforts around mountain gorillas and gorilla-based tourism have fared before, during and after the conflict and to examine how nature-based tourism has been managed with respect to a broad range of impacts and dimensions.

In this paper, the post-conflict (more precisely postarmed conflict) period in Rwanda will be regarded as the years from the end of genocide in 1994 to 2003, when the Presidential and Legislative elections were held and the new Constitution was issued. 2003 marked a historic moment for Rwanda, when sovereignty was transferred from the military regime to a democratically elected civilian regime. However, the justice and reconciliation efforts are still ongoing in 2012 at the time of writing, and the peace-building process is not yet a continuous national undertaking.

The area most critical to mountain gorilla tourism lies at the center of the Great Lakes region of Africa: the Virunga mountain range, shared by Rwanda, Uganda, and the Democratic Republic of the Congo (DRC). Each of these three countries plays a part in the region's complex history. They share borders and a contiguous park that is broken into each country's own protected area: Parc National des Volcans (PNV) in Rwanda, Parc National des Virunga (PNVi) in the DRC, and Mgahinga Gorilla National Park (MGNP) in Uganda. The shared park contains about half of the region's mountain gorilla population. A separate park, Bwindi Impenetrable National Park (BINP) in Uganda, is home to the other half of the mountain gorilla population (see Figure 1).

Kenya, Tanzania, and South Africa, are African neighbours that fare well as international nature-based destinations, earning substantial tourism income (Strasdas *et al.*, 2007). Particularly in developing countries, highly attractive and accessible areas (such as UNESCO World Heritage sites) are very popular and generate substantial profits. Less attractive or less accessible areas have fewer chances of receiving tourists and gaining large commercial benefits. They tend to rely on financial and technical support from donors and focus primarily on environmental and social benefits (Strasdas *et al.*, 2007). The charismatic mountain gorillas have attracted world-class conservation efforts and attention. The Virunga region, with its highly

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¹ An earlier version of this case study, which focused on macroeconomic growth and local livelihoods, has been submitted to be published in Strengthening Post-Conflict Peacebuilding through Natural Resource Management (PCNRM), VOLUME 4: Livelihoods and Natural Resources in Post-Conflict Peacebuilding by Earthscan (2013).

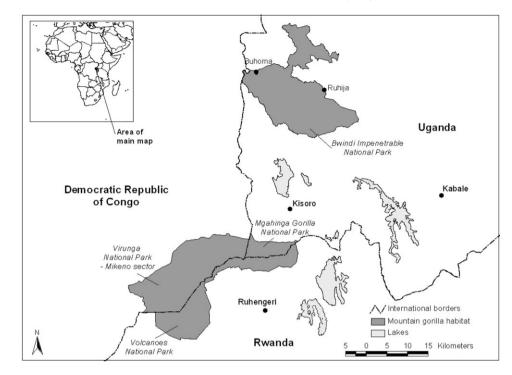


Figure 1. Map of the Great Lakes region, including national parks. Source: Blomley et al. (2010).

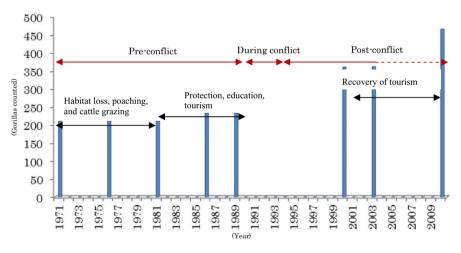


Figure 2. Virunga mountain gorilla population from 1971 to 2010. Sources: Gray et al. (2005; 2010); Bush (2009).

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the poorest countries in the world, and population densities surrounding the parks are among the highest in the world, up to 700 people per square kilometer (Plumptre et al.,

2004). Over 75% of Rwandans live below the international poverty line of US\$ 1.25 per day, and 90% of Rwandans rely on subsistence agriculture for survival (Tusabe and Habyalimana, 2010; Musahara et al., 2006). The 1994 genocide cut Rwanda's gross domestic product (GDP) by 50% (Musahara et al., 2006). The three countries are in the bottom twenty-five countries by GDP per capita, although their GDP growth rates are among the top twenty in the world (CIA, 2010a; 2010b).

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The remainder of the article is constructed as follows. Section 2 briefly reviews the background of regional

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attractive wildlife, has been receiving a good number of international tourists, even though the infrastructure and tourist facilities, such as hotels and restaurants, are often much simpler than those found in other, high-end safari destinations in Kenya or South Africa. The impacts of mountain gorilla tourism are best understood in light of the conditions in the communities near the parks. Rwanda, Uganda, and the DRC are among

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conflict as it affected gorilla-based tourism and conservation efforts in the region and examines the strategy of the Rwandan Government for nature-based tourism over the years. Section 3 reviews the experience prior to, during and post- conflict, in terms of trends in the gorilla population, trends in gorilla tourism, and benefits generated by the gorilla industry. Section 4 reviews institutional gaps. Section 5 draws lessons from this case study. Section 6 concludes.

2. Conflict and tourism development in the region

2.1. Regional conflict history

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A variety of forces have helped to drive conflict in the region, including ethnic clashes and competition for natural resources. Rwanda's civil war began in 1990, when the Rwandan Patriotic Front (RPF) attacked from bases in southern Uganda, and lasted through 1994, when Rwandan president Juvénal Habyarimana was assassinated. His assassination triggered a genocide that resulted in the killing of almost a million Tutsis and moderate Hutus over the span of a hundred days. The genocide led to a massive shift of two million people from their homes, including the interahamwe — a group of radical Hutus who are believed to have perpetrated the genocide. Most of the displaced people returned to Rwanda within two years, but many interahamwe remained in the DRC, attacking Rwanda and putting pressure on those managing the park and its mountain gorilla population (Lanjouw, 2003). Rwandan tourism, which had reached a peak of 22,000 visits in 1990, quickly disappeared during the civil war. It had recovered fully by 2002, long after the genocide ended (Nielsen and Spenceley, 2010).

The DRC, formerly Zaire, has played a central role in the region's instability. Civil wars in the country in both 1996 and 1998 involved Rwanda and Uganda as allies to the cause to remove Zaire's president Mobutu. Rwanda and Uganda subsequently became rivals, fighting over the natural resources available in the eastern DRC (Hammill and Brown, 2006). The eastern part of the country, too far away to be controlled by the Government, continued to serve as a shelter for 8,000 to 10,000 interahamwe, including those involved in the 1999 Uganda tourist massacre (Hatfield and Malleret-King, 2007). Prior to these conflicts, Zaire had a well-developed mountain gorilla tourism industry, greater than that of either Rwanda or Uganda, but business was devastated by the continued conflict in and around the park (Hatfield and Malleret-King, 2007). Instability prevented any tourism in the DRC until 1999, and since then, most tourists have been DRC residents and non-governmental organization (NGO) staffers working in the DRC.

Uganda has played a key role in the conflict within the DRC and in the shared national park. Uganda and the DRC

signed a treaty in 2002 that included deadlines for Uganda to remove its troops from the DRC and for the DRC to gain control over its eastern sector, but both sides failed to keep their promises (Varga *et al.*, 2002). Despite this unrest, mountain gorilla tourism has grown steadily in Uganda since its formal introduction in 1991. In 1999, however, Uganda's tourism industry encountered a setback when members of an *interahamwe* group based in the DRC killed eight tourists who were visiting gorillas. Surprisingly, tourism numbers recovered quickly after a drop immediately following the incident.

2.2. Nature-based tourism in Rwanda

Nature-based tourism uses "natural resources in a wild or [2] undeveloped form — including species, habitat, landscape, scenery and salt and fresh-water features. Nature tourism is travel for the purpose of enjoying undeveloped natural areas or wildlife" (Goodwin, 1996). Nature-based tourism can provide economic viability for biodiversity conservation and raise public awareness through environmental education (Goodwin, 1996). As with other natural resource uses, nature-based tourism causes both negative and positive impacts depending on how the visitation is managed. In order to seek net benefits from tourism in the realm of environmental, social, cultural and economic impacts, the concept of ecotourism was developed. Ecotourism evolved as an ambitious and complex mission to be achieved that generated over 85 definitions worldwide (Fennell, 2001). The very essence of ecotourism embraces strong components of education, taking into account the principles of ecological, socio-cultural and economic sustainability sensitivity (Weaver and Lawton, 2007). The Quebec Declaration, in the framework of the 2002 United Nations International Year of Ecotourism, further embraces the operational elements, and boasts the following principles: (1) Contribute actively to the conservation of natural and cultural heritage; (2) Include local and indigenous communities in the planning, development and operation, contributing to their well-being; (3) Interpret the natural and cultural heritage of the destination to visitors; and (4) Lend itself better to independent travelers and organized tours for small size groups (UNEP, 2002).

In Rwanda, tourism has been used effectively as a vehicle for conservation. In practical terms, visitations to national parks in Rwanda can be more appropriately categorized as nature-based tourism rather than by stretching the definitions of ecotourism. From 1979 on, the tourism sector, including nature-based tourism, rose to become the third foreign exchange earner in Rwanda, surpassed only by tea and coffee (Weber, 1987). Led by nature-based tourism focusing on mountain gorilla viewing, the tourism sector in Rwanda now has risen to the largest foreign exchange earner, followed by coffee and tea, generating around US\$ 200 million annually (Nielsen & Spenceley, 2010).

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Rwanda and Uganda have each employed a mix of strategies combining pricing and market focus, international outreach, and tourism sector reform. Market focus is a key distinction between nature-based tourism and mass tourism. Nature-based tourism is characterized by a small volume of tourists and by intimate experiences, while mass tourism may entail larger crowds and more impersonal experiences. Mountain gorillas are an ideal subject for nature-based tourism, as they are relatively scarce, require visitors to exercise caution, and are difficult to access. Nature-based tourism gives the tourism sector an opportunity to focus on the high-end market, which is much more profitable in terms of revenue per visitor.

Having studied the tourism sectors in Kenya and Mauritius, leaders in Rwanda learned that the latter was reaching a higher-end market with lower volumes of visitors, and they decided to mimic this model (Nielsen and Spenceley, 2010). Rwanda and Uganda have both focused on the high-end market by raising gorilla tracking fees on multiple occasions (Uganda Investment Authority, 2001; Nielsen and Spenceley, 2010). Uganda raised its fee incrementally from an initial US\$ 175 in 1998 to US\$ 500 currently (Adams and Infield, 2002; Hatfield and Malleret-King, 2007; Uganda Wildlife Authority, 2010). In Rwanda, the fee was originally US\$ 375 (in 2004); now it is US\$ 750. The fee change in Rwanda resulted in a shift in the type of visiting tourists: more visitors came from highincome groups, and fewer visitors came from lower-income groups. An unexpected result was that the average stay declined from 4.2 to 3.6 nights (Nielsen and Spenceley,

Rwanda invested heavily in its participation in tourism industry trade fairs, and it won first prize for the best African display at the ITB Berlin tourism fair for three straight years: 2007, 2008, and 2009. Exposure at trade fairs increases interest and investment in safaris and other travel packages put together by private companies, which in turn can generate demand from potential tourists around the world. Rwanda has also gained exposure through media features and various documentaries (Nielsen and Spenceley, 2010). Features on international media channels, including CNN and the National Geographic Channel, continue to generate demand for mountain gorilla tourism, and they are one of the reasons Rwanda has been able to maintain constant visitor numbers despite the significant increases in tracking fees.

The combination of these strategies has enabled mountain gorilla tourism to make a significant contribution to the Rwandan economy. One indicator of the impact is park attendance. Rwanda's park attendance disappeared during the civil war and genocide and stayed quite low during the late 1990s. PNV reopened in 1999, and attendance has subsequently grown from 417 visits that year to over 17,000 in 2008 (Nielsen and Spenceley, 2010). In the periods from 2001-2002 to 2004-2005, attendance at

PNV (Rwanda) increased from 2,000 to 9,000 visitors, and at BINP (Uganda) from 3,000 to 5,000.

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For Rwanda, tourism is the leading source of export revenue (though exports account for a relatively small part of Rwanda's GDP), contributing US\$ 35.7 million in 2006 (Bush, , 2009; Nielsen and Spenceley, 2010). With 80% of national tourism income generated by PNV, it is clear that visitor spending related to mountain gorilla tourism is a significant contributor to this revenue (Sabuhoro, 2006). The park-specific revenue (fees, entry permits, and other related income) generated in 2005 by PNV accounted for approximately 0.2% of Rwanda's GDP (Musahara et al., 2006). However, with the new method of gathering tourism statistics used since 2008, which covers a wider range of tourists, including both holiday visitors and business travelers, the sector generated over US\$ 138.7 million, contributing 3.7% to the GDP (Office Rwandais du 6 Tourisme et des Parcs Nationaux (ORTPN), 2008).

3. Analysis of experiences

3.1. Conservation success of mountain gorillas

Mountain gorillas are currently considered critically endangered by the International Union for Conservation of Nature (IUCN). Although the Virungas were given national park status in 1925 to conserve the gorillas, the population received little attention until the 1970s. Following the pioneering study by George Schaller, long-term research and conservation efforts were first initiated in the late 1960s by Dian Fossey, the well-known gorilla advocate and author of Gorillas in the Mist (2000). The population nevertheless continued to suffer from habitat degradation and poaching. Major conservation programmes were underway by the end of the 1970s, which concentrated on three broad issues: the development of sustainable and economically viable gorilla-based tourism, support for anti-poaching programmes, and conservation education targeting resident populations around the Virungas. Under these programmes, the conservation status of the Virunga massif was greatly improved during the 1980s (Kalpers, 2005).

The mountain gorilla population, split between BINP (321 km²), PNV (160 km²), PNVi (250 km²), and MGNP (27 km²), totals about 880 individuals (Gray *et al.*, 2010; Blomley *et al.*, 2010; Hatfield and Malleret-King, 2007). This reflects about 1.15% annual growth from 1989 to 2003 for the shared parks, and approximately 1% annual growth for BINP from 1997 to 2006 (McNeilage *et al.*, 2006). Mountain gorillas in the Virunga Volcanoes of Rwanda, Uganda, and the DRC have been counted by census eight times since 1970 (Gray *et al.*, 2003; 2010; McNeilage *et al.*, 2006). There was an interruption during the period of war and political unrest in the 1990s. The gorilla census in 2010 estimated the current gorilla population in the Virunga Volcanoes Region to be 480 individuals. This represents a

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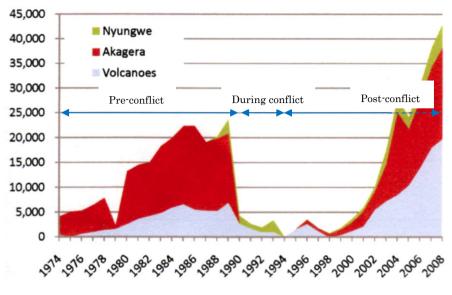


Figure 3. National park visits 1974 to 2008.

Note: Arrows indicating conflict periods by the author.

Source: Nielsen & Spenceley (2010:19, based on ORTPN).

26.3% increase in the total population from 380 in 2003, or a 3.7% annual growth rate (Gray *et al.* 2003), which is higher than the projected growth rate calculated at 3.1% from Leslie matrix models using birth rates and age-specific survivorship values. Even during the period between 1989 and 2003, an annual 1.15% growth rate was observed, and it is regarded as a conservation success considering the climate of war and political unrest in the 1990s (Kalpers, 2005).

To provide an overview, a former IGCP staff member, Kalpers summarizes the factors contributing to gorillas' survival as following: (1) the resident communities in the Virunga region do not eat gorillas for cultural reasons, even though there has been an increase in trapping of some large mammals such as antelopes; (2) the size of the entire Virunga massif is relatively small (437 km²), which makes it easier to access and control; and (3) the Virunga gorillas are still recognized as an important economic resource (through tourism) by the national and local authorities of the three countries sharing this forest block; during the various phases of the conflict, many of the warring factions actually have shown commitment and invested resources to ensure that the gorillas were not harmed; (4) conservation strategies developed in the past three decades probably had a durable impact on local people's attitudes and on the commitment of park staff (Kalpers, 2005).

3.2. Recovery of gorilla-based tourism

After the launch of gorilla tourism initiated by the Mountain Gorilla Project in 1979 (Weber and Vedder, 2001), the Volcanoes National Park and the Parc National des Volcans (PNV) began to attract international tourists, and recorded

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6,900 tourists in 1989. During the year of the genocide in 1994, tourism to PNV collapsed, recording 61 visitors, including members from the United Nations Peacekeeping Operation, the United Nations Assistance Mission for Rwanda (UNAMIR), who started to visit PNV as early as three months after the halt of the genocide in July 1994 (Rutagarama, 2009). Four hundred and seventeen people visited the park in 1999 after its reopening (Nielsen & Spenceley, 2010), after which there was a steady increase in the number of tourists. After the recovery from conflict and insecurity in 2008, about 17,000 people visited the Volcanoes National Park (PNV) to participate in gorillas tracking (see Figure 3).

3.3. Local livelihoods and how the benefits from gorilla-based tourism are shared

According to the study "Economic Value of Virunga and Bwindi Mountain Gorilla Protected Forests" conducted by the African Wildlife Foundation (AWF) in 2005, overall, gorilla tourism generates US\$ 20.6 million per year in benefits, with 53% accruing to the national level, 41% to the international level, and 6% to the local level. The largest benefit component is international tourist consumer surplus (28% of total benefits) followed by national income generation (17%) and national tax impact (15%). International travel revenue and gorilla tracking fees both represent 13% of the benefits. As indicated in Figure 4, local gains within the total pie of the benefits compose the smallest proportion.

The term "pro-poor tourism" describes tourism that aims to address poverty reduction by generating benefits for poor communities. By considering poverty reduction as a goal of

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Local International Local Income Government Revenue, 2% **Tourists** Impact, 4% Tax Impact. (Consumer 15% Surplus), 28% National Income (nonlocal) Impact, International 17% Revenue, 13% Park fees, 13% Nation (nonlocal), 8%

Figure 4. Annual benefits accruing from gorilla-based tourism. *Source*: Hatfield (2005:5).

tourism, government policies and tourism strategies can address socio-economic inequities, create local livelihood opportunities, and generate needed revenue (Spenceley et al., 2010). Rwanda's gorilla-based tourism strategy incorporates elements of pro-poor tourism and generates both monetary and non-monetary benefits for the communities adjacent to the parks. Financial gains from tourism typically fall into six categories: (1) livelihood and income generation; (2) income from joint ventures with local communities; (3) cultural tourism; (4) local crafts; (5) fruit and vegetable production; and (6) community grants (Spenceley et al., 2010). Virunga National Park directly employs approximately 800 people for park management and maintenance, and an additional 54,000 people are employed in the tourism sector around the park (Government of Rwanda, 2012). Over 180 people are employed by PNV as guides, gorilla trackers, and antipoaching units. Additional benefits to local communities include non-financial returns such as land access, effective natural resource management, and community development supported by national and regional revenue-sharing schemes (Spenceley et al., 2010).

Since 2005, revenue-sharing has been implemented in Rwanda. Of tourism revenue (park fees), 5% is injected into communities by the ORTPN (now the Rwanda Development Board (RDB)). The RDB invests 40% of total revenue-sharing funds to support community enterprises with the remaining 60% funding local infrastructure (IIED, 2013). To date, 10 schools have been constructed accommodating approximately 3,640 pupils; 88 water tanks built providing water to around 40,000 people; and 10 community associations were supported for income generating activities (Nielsen and Spenceley 2010, RDB, 2013a). Other community projects funded by revenuesharing include health facilities, local tile and brick factories, bee keeping projects, and agricultural projects such as seed production and storage, agroforestry, and tree planting (RDB, 2013b).

Revenue-sharing also funded construction of the Sabyinyo Silverback Community Lodge, a joint venture

project between the Rwandan government, the Kinigi and Nyange communities, which are together represented by the Sabyinyo Community Livelihoods Association (SACOLA), and a private sector eco-lodge company (Governors Camps Ltd.) (Spenceley *et al.*, 2010). The lodge directly employs 45 locals, who receive professional tourism and hospitality training. Management purchases agricultural products from local producers, therefore injecting more revenue into the community, and traditional cultural activities and local crafts are available. Although privately managed, the terms of the joint venture agreement require a percentage of profits to be paid to the local communities. It is estimated that returns will account for approximately \$100,000 annual investment in the surrounding region.

Since 2005, the revenue-sharing scheme has disbursed an estimated US\$ 1,830,000 to community projects (RDB, 2013b); but when averaged by population, it only accounts for around US\$ 6 per person since its launch. This small amount of local investment creates a number of challenges. First, when the revenue-sharing was launched, the fund was disbursed from the Ministry of Local Government instead of the ORTPN (or RDB). As a result, local people did not see the link between the building of infrastructure in their neighbourhood and the revenue shared by the PNV. RDB quickly rectified this situation and started to handle the disbursement of funds and relevant infrastructure management themselves (RDB, 2009). It is useful to point out that the revenue-sharing scheme applies an infrastructure oriented approach that is not genuinely responsive to the needs of the poor in the local community (Martin et al., 2008). The equity issue remains a significant challenge in terms of loss and benefits felt by the local communities due to the national park activities, with a special reference to the Batwa community, who feel that they benefit less from the Park compared to other groups in the community because they had been less privileged in terms of livelihoods and social status. (Martin et al., 2008). As the poorest populations most often depend on and use natural resources from the protected forests (Bush, 2009), the revenue-sharing scheme should strategically target

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The annual household income in 2009 for communities adjacent to PNV was estimated at US\$ 540 per household, which is just above the national average of US\$ 500 (Bush et al., 2010). To meet the growing livelihood needs of the local population and to compensate for the losses imposed by limited access to park territory on the local community members, measures should be enhanced to fundamentally boost the livelihood capacities of the local population. The benefit-sharing scheme can only reach a limited number of beneficiaries. As Spenceley et al. (2010) indicate by their study of value chains relating to nature-based tourism, there are promising opportunities to extract commercial gains that favour the poor. Encouraging the private sector and training the local population, however, are key (Spenceley et al., 2010). In order to embrace a larger group within the local communities, it is crucial to redistribute tourism benefits for the purpose of enhancing the productive capacities of the local population by improving agricultural output and agro-processing.

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4. Overcoming capacity gaps in institutions

This section focuses on the issue of institutional capacities of stakeholders engaged in mountain gorilla conservation and tourism. The capacity gaps and basic conditions of regional and local security emerged as the most essential challenges in post-conflict settings.

4.1. National capacity for biodiversity conservation in Rwanda prior to conflict

As early as the late 1980s, before the civil war, the ORTPN,² gained administrative and financial autonomy from the Rwandan Government and began financing its operations with Government subsidies, park fees, and grants from private donors and partner organizations. As an autonomous organization, the ORTPN was then able to cross-subsidize salaries, park patrols and operating costs in the protected areas of Rwanda, Akagera National Park and the Nyungwe Forest Reserve (Plumptre & Williamson, 2001). This contrasts with many of the parks and park systems around the world, which are poorly funded because of inadequate tourism development or insufficient income derived from tourism (Bushell *et al.*, 2007). For gorilla tourism revenue to cover the recurrent costs of the three national parks (the Nyungwe Forest Reserve was upgraded to a national park in

2004) in Rwanda and pay for the regional revenue-sharing scheme in Rwanda, the DRC and Uganda — that is a notable achievement.

4.2. Institutional capacity during the conflict

On the institutional side, during the height of the conflict years, culminating in 1994, NGOs, such as International Gorilla Conservation Programme (IGCP), provided politically impartial support for the conservation of the protected area and the park authorities. IGCP continued its financial and technical support to the park staff and rangers who remained in the Park and continued to carry out their work. The junior staff remained in the park and kept up operations. Technical, moral and financial support was important; the fact that salaries reached the field-level staff was essential to keeping park operations functioning. Bilateral and multilateral donors such as USAID, German Agency for Technical Cooperation (GTZ), the European Union and World Wildlife Fund (WWF) also provided support to the protected areas during the period of conflict and genocide in the region. In particular, the support provided to ORTPN by IGCP immediately after the genocide, starting from October 1994, to assist the organization in regaining staff and resuming operations was essential to prevent the rapid destruction of the forest. The National Volcanoes Park in Rwanda and the Southern Sector of the National Virunga Park in DRC were extremely vulnerable due to the presence of up to 750,000 refugees on the borders of the park and from the regular movement of people through the forest. Only with coordinated deflective action from park authorities on both sides of the border could the poaching and habitat destruction be contained.

4.3. Restoring and developing capacities in the post-conflict period

In 1995, Rwanda ratified the Convention on Biological Diversity (CBD) and its National Strategy and Action Plan for Conservation of Biodiversity was adopted in 2003. The restructuring of ORTPN took place in 2003. The Rwanda Environment Management Authority (REMA) was established in 2005 under the Organic Law on Environment Protection and Management, and the National Forestry Authority (NAFA) was founded in 2008. The umbrella organization for overall environmental management is the Ministry of Natural Resources (MINIRENA), previously known as the Ministry of Lands, Environment, Forestry, Water and Mines (MINITERE) until May 2011 (Global Environmental Facility and Government of Rwanda, 2007).

To restore governance and management capacity, the Rwandan Government enacted significant policy changes to help grow the nature-based tourism sector, including identifying tourism as a development priority in the country's Vision 2020 strategy (Spenceley *et al.*, 2010). A Tourism Working Group, including representatives from

² The Office Rwandais du Tourisme et des Parcs Nationaux (ORTPN) was created in 1973 as the national authority managing Rwanda's parks and tourism sector. In 2008, the mandate and functions of the ORTPN were transferred to the Rwanda Development Board (RDB).

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both public and private sector industries, was established in 2001, followed by the development of a new Rwanda Tourism Strategy in 2002 (revised in 2007) (Nielsen and Spenceley, 2010). In 2006, the Government approved a National Tourism Policy, which was revised in 2009 in light of the recently approved 2009 Sustainable Tourism Master Plan. Rwanda also implemented policies offering tax exemptions for investors who contribute over US\$ 100,000 to a tourism facility and tax-free importation of tourist-transporting airplanes. In addition, Rwanda exempts from taxation secondary goods like bedroom fittings and swimming pools for hotels, further incentivizing investment.

A crucial part of Rwanda's strategy has been to streamline the legal framework in which businesses operate; for example, it is now possible to register and open a business in one day, for only around US\$ 43 (Nielsen and Spenceley, 2010). By making it easier to form and run a business, Rwanda hopes to increase Rwandan entrepreneurship and foreign investment. Economic opportunities around mountain gorilla tourism have contributed to the enormous growth around the PNV headquarters in the Kinigi region. In connection with this growth, Rwanda privatized formerly state-owned hotels and decentralized much of its control over parks. Due to industry friendly policies, the tourism industry in the PNV region in 2009 made an estimated US\$ 42.7 million from hotel accommodations, tour excursions, and shopping (Spenceley et al., 2010).

4.4. Security dimension

With regard to security pertaining to conservation, it is acknowledged that there was a strong commitment by the military to ensuring security around the national park, which borders neighbouring countries. Military escort was provided for mountain gorilla research and tourism until 2004, which was totally funded by the national military budget (Fawcett, 2009). Security was a necessary condition for tourism to pick up again. Para-military training was provided to people working in the conservation community, and training on natural resource management was provided to the military personnel by the conservation community. The presence of the military provided a "sense of security" appreciated by the local people, which can be seen as one of the positive results of the national park on the local communities (Gasigwa, 2009). The return of international tourists also gave assurance to the local communities that a certain level of security had been restored.

Security in this region is crucial for both tourism and local livelihoods. Natural resources provide a bundle of services and benefits, and it is important to consider the interplay between diverse resources and the human interests associated with them. A lack of security can significantly interfere with natural resources, including the parks that support gorilla tourism. For example, in 2007, the Mikeno

Sector of the Virunga Volcano massif in the DRC was seized by the rebel group CNDP (National Congress for the Defence of the People/Congrès national pour la défense du peuple), led by Laurent Nkunda and funded in part by income generated from gorilla tourism. The seizure lasted until Nkunda's arrest in Rwanda in 2009. However, in 2012, a reformed group of Congolese rebels, known as M23, again took control of the park, siphoning off tourism funds to support rebel militants. Recent tensions also have arisen between groups engaged in charcoal production and trading and the DRC park authorities. In 2007, ten gorillas were massacred in the Mikeno Sector to disrupt income generated from gorilla viewing and to send a message to the park staff not to interfere with private business in the park (Refisch and Hammill, 2012).

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4.5. Transboundary cooperation

The Virunga Volcano massif and Bwindi Impenetrable Forest are the two forest blocks in the Albertine Rift region, which is shared by Burundi, Rwanda, Tanzania, Uganda and the DRC (Rainer *et al.*, 2003). One of the primary habitat areas for the mountain gorilla population, the Virunga Volcano massif hosts three adjoining parks: Parc National des Virunga (PNVi) in DRC, which has been designated a World Heritage site; Parc National des Volcans (PNV) in Rwanda, which has been designated a Man and Biosphere Reserve; and Mgahinga Gorilla National Park (MGNP) in Uganda.

While traditional approaches to transboundary conservation have been primarily adopted in high-level policy agreements among Governments, recent trends in field practice and research demonstrate the effectiveness of a "bottom-up" approach to conservation Stern *et al.*, 2003). In "bottom-up" approaches, conservation goals are set at a local or community scale with an aim to respect the human rights and dignity of the local populations. The local populations also serve as the source of wisdom and knowledge about the environment in which they have lived (Stern *et al.*, 2003).

For around 15 years, facilitated by IGCP, there have been active transboundary collaboration efforts among the protected area authorities and field-based park staff in the Virunga Volcano massif (Rainer et al., 2003). Because the three national parks share a common ecosystem and because the wildlife, including the mountain gorillas, move beyond the national borders, a collective regional approach to conservation proved to be more effective than the respective parks working in isolation. The cultural and ethnic groups around the parks have similar languages, cultures, and traditions, providing a solid basis for regional collaboration in development and conservation (Lanjouw et al., 2001). The main areas supported by IGCP for regional efforts at the field level were communication, planning and cooperation in collaborative activities as well as regional monitoring. The major achievements of regional

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The field level collaboration proved effective not only in biodiversity conservation but also for joint tourism activities and promoting broader regional dialogue. In 2006, an innovative revenue-sharing scheme was set-up among countries to share 50% of tourism revenue from the sale of gorilla tracking permits when a habituated gorilla group crossed a border between the country of origin and the receiving country. This agreement prompted the signing of the Virunga Transboundary Strategic Plan in 2006 (Refisch and Hammill, 2012).

In the early stage of exchanges among field level staff of the park authorities, the absence of higher political commitment posed a risk to maintaining the collaborative framework. However, the long-term efforts and the results on the ground laid a foundation for the collaborative framework to trickle up to an official diplomatic track at the Ministerial level. The on-the-ground initiatives were formalized by the following agreements and plans: a Memorandum of Understanding among protected area authorities of the DRC, Rwanda and Uganda in 2004; two Ministerial Declarations in 2005 and 2008; the Virunga Transboundary Strategic Plan in 2006; and a Memorandum of Understanding on the "Collaborative Monitoring of and Sharing Revenues from Transfrontier Tourism Gorilla Groups". A Transboundary Secretariat was established in 2008 to maintain regular contact between these three countries, and to coordinate activities. With the signing of the Virunga Transboundary Strategic Plan, IGCP gradually handed over the role of facilitation to the Transboundary secretariat to enhance national ownership in the transboundary collaborative processes.

This could be seen as a remarkable case of track two diplomacy (non-official mediation between civil society actors) promoting more active dialogue for track one diplomacy (official negotiations between political and military elites or, in other words, top-down efforts) for regional collaboration (Goodhand, 2006). Based on this working relationship, developed from the joint mountain gorilla conservation efforts, there are new initiatives emerging to scale up transboundary collaboration activities

to also deal with fisheries and energy issues in the region. The region has experienced armed conflict for over two decades, creating tension in the relationships between countries, such as in 2002, when Uganda and Rwanda were engaged in DRC fighting over Congolese natural resources. Although high-level political cooperation at that time was extremely difficult, at the technical level, collaboration between park wardens was still possible (Refisch and Hammill, 2012). Although natural resources remain a source of competition and conflict among the parties, the natural resource base can also be a foundation for cooperative relationships and open dialogue. This finding reinforces the previous research result, which manifests that "natural resources can form the basis for international cooperation and diplomacy, even among States with histories of tense relationship[s]" (Bruch et al., 2011:368). In cases when negotiations between States are not possible, a grassroots approach facilitated by neutral non-State actors, such as locally-based international NGOs, can initiate and enhance environmental diplomacy.

Researchers to date have provided little systematic evaluation of the effects of track two interventions on conflict termination and "no empirical evidence that [unofficial intervention] has contributed or can contribute to the resolution of ethnic conflict" (Rouhana, 1995:268). Despite this lack of research, the regional collaboration in the Virunga region provides a compelling example of how parties from countries in conflict situations can communicate and act in cooperation on concrete technical issues to jointly manage shared resources. Cooperation on a regional scale prompts parties to work together, which can lead to improved conservation results and even encourage higher level political dialogue. The platform for cooperation can also be scaled up to address broader areas, including livelihoods and socio-economic development. This provides a good case study for other transboundary protected areas around the world, and may offer some useful lessons for countries facing conflict situations.

5. Lessons learned

Possibly the most obvious — but also the most significant — lesson is that security and stability are necessary preconditions for the nature-based tourism industry to develop. Although it is possible to overcome setbacks (such as the massacre in Uganda in 1999), tourists will not travel to a region if they fear for their safety. In resuming conservation and tourism activities, the support from the military was indispensable. Tourism and security go hand in hand.

For countries with endemic endangered species that are interesting to tourists, focusing on a high-end market can enable them to charge high fees for tracking and viewing. Although a high-end market brings additional challenges, such as the need to upgrade facilities and the quality of

services, it is a great opportunity to capture wealth from those visitors who are willing to pay the price.

In Rwanda, the protected area forests generate positive benefits, both tangible and intangible, relative to costs. For example, local communities derive financial gains from the production, marketing and sale of products to visitors of nearby protected areas. Local communities also receive support through national and regional revenue-sharing schemes. However, the bulk of the benefits is enjoyed by the international community, with few benefits reaching the countries of the protected areas themselves. This suggests that the international community should be paying a greater share for the benefits it enjoys, and that the distribution of larger portions of benefits should be allocated to the local community, especially investing in local small-holder agricultural livelihoods (Hatfield, 2005).

On the livelihoods side, it is essential to make connections between the mountain gorillas, tourism, revenue, development projects, and local populations. In particular, developing revenue-sharing schemes with local input will help ensure that development approaches are well informed and that they build expertise within the target communities. Partnerships with local communities can promote long-term development so the communities themselves, rather than private corporations, can run the community lodges.

Supporting the institutional capacity of park authorities is essential. Even during the height of insecurity, continuous internal and external support is critical to the technical, moral and financial aspects of managing the park. In this case, extensive education programmes were operational prior to the war, and some projects continued their outreach activities during the conflict years. In addition, several international conservation organizations continued their support to the park authorities throughout the war, assisting with surveillance and management efforts, by supplying equipment, paying staff salaries and capacity-building. Long-term support prevented these authorities from undergoing major institutional collapse (Kalpers, 2005). During the conflict, in the absence of a legitimate Government, national NGOs could be effective partners for external donors.

Government commitment to developing the industry is also a necessary condition. In Rwanda and Uganda, business reforms, investment in tourism fairs, and the inclusion of tourism in economic plans all contributed to a massive increase in the number of visitors to the park and generated international attention during the post-conflict period. Countries emerging from conflict often do not have the capacity to develop a nature-based tourism industry, but by enabling the private sector to provide the necessary investment and expertise, they can enable growth such as that experienced in Rwanda and Uganda.

Transboundary cooperation worked well with a bottom-up rather than top-down approach. The top-down approach could have instead created a vacuum at the local

level. In this particular case, track two interventions influenced the track one interventions positively. This shows that the natural resource base can effectively promote cooperative dialogue and relationships among parties even in the conflict situations. When negotiations between State actors are not possible, a grassroots approach, facilitated by neutral non-State actors, may prove more effective in promoting cooperation.

6. Conclusion

The case of mountain gorillas in the Virungas provides evidence that wildlife populations can increase, even during the height of insecurity and armed conflict, when intensive conservation efforts are put in place. Despite the fact that mountain gorillas and their habitat were victims of armed conflicts and its aftermath, mountain gorilla conservation and tourism have made positive contributions to post-conflict recovery and transboundary collaboration in the region. Overall, the foundation for transboundary collaboration is solid and may provide a platform for enhanced collaboration on this and other critical issues affecting the region.

In Rwanda, mountain gorilla conservation and tourism generated positive results in the socio-economic, governance and security domains. During the post-conflict period, gorilla-based tourism generated income to cover the operation costs of the three national parks in Rwanda. However, the benefits generated by gorilla-based tourism have been shared with the local communities only on a limited basis. In addition, the success of mountain gorilla conservation and the growing nature-based tourism industry could place pressure on the limited capacity of the national parks and their wildlife and habitat in the future. Such challenges necessitate continued regional cooperation and conservation efforts of gorilla populations.

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