AFRICA

Promoting Environmental Security and Poverty Alleviation in Virunga-Bwindi, Great Lakes - Africa

IES EnviroSecurity Assessments

A major proportion of the world's ecosystems and the services they perform for society and nature is being degraded or used unsustainably. This process affects human wellbeing in several ways. The growing scarcity of natural resources creates a growing risk for human and political conflicts and hinders sustainable development and the poverty alleviation that depends on it. Situations involving resource abundance can also be related to serious environmental degradation, increased community health risks, crime and corruption, threats to human rights and violent conflicts - in short, to a decrease of security.

The overall objective of IES EnviroSecurity Assessments is to secure the natural resource livelihood basis on the local, regional and international level. IES pursues this objective along the following mutually related lines: (1) the conservation of ecosystems and their related services, (2) the implementation of the international legal order, (3) the provision of economic incentives for maintenance of ecosystem services, and (4) empowerment of relevant actors and dissemination of results.



Institute INSTITUTE FOR ENVIRONMENTAL SECURITY

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The Institute for Environmental Security (IES) is an international non-profit non-governmental organisation established in 2002 in The Haque, The Netherlands with liaison offices in Brussels, London and Washington, D.C.

The Institute's mission is: "To advance global environmental security by promoting the maintenance of the regenerative capacity of life-supporting eco-systems."

Our multidisciplinary work programme - Horizon 21 - integrates the fields of science, diplomacy, law, finance and education and is designed to provide policymakers with a methodology to tackle environmental security risks in time, in order to safeguard essential conditions for sustainable development. Key objectives of the Horizon 21 programme are:

SCIENCE:

Create enhanced decision tools for foreign policy makers, donors and their target groups on regional, national and

DIPLOMACY:

Promote effective linkages between environment, security and sustainable development policies; Contribute to the development of a more effective

LAW: system of international law and governance;

FINANCE: Introduce new and innovative financial mechanisms for the maintenance of the globe's life supporting ecosystems; ■ FDUCATION: Build the environmental knowledge capital of people and organisations.

Our mission and programme should be seen in the context of promoting international sustainable development goals and as a contribution toward long-term poverty alleviation.



Recommendations from the Virunga-Bwindi region Case Study

ON MAPPING AND MONITORING

- 1. While the focus of these recommendations is to strengthen the peace park functions of especially the tri-national Virunga parks complex, the first recand to determine the whole set of ecosystem services (as defined by the Millennium Ecosystem Assessment) which the region is providing to its imme-GEF-funded Global International Waters Assessment (and any others) should
- 2. The threats to the maintenance and delivery of ecosystem services should be identified on the various levels: local (e.g. population pressure); regional (violent conflicts, migration, etc.); international (mining and logging for export markets); and global (impact of climate change is highest in Africa "where
- 4. A system of continuous monitoring of the ecology (and the threats there-to),

authorities and counterparts such as IGCP, should be set up. There should be also be made available to the governments and all other relevant decision-

ON DIPLOMACY AND LAW

- 6. The pertinent international legal regimes should be identified so as to define the responsibilities, obligations and rights of the various actors in and relevant for the region. It is recommended strongly to take the responsibilities and obligations of the countries in the Virunga-Bwindi region under the the countries in relation to the implementation of these conventions on the
- 7. Tripartite consultations among Virunga Massive rangers and (park) authorities between the three States of October 2005 could be upgraded to a "Legal Framework for a Transboundary Area" implying a binding treaty between the

ON FINANCE AND ECONOMICS

- 8. Adequate, long term financing for monitoring and management is an absolute requirement for the Virunga-Bwindi area to be successful as a peace park, as habitat for unique biodiversity and as "water tower" for the surrounding cally review the performance of the Mgahinga and Bwindi Impenetrable Forest Conservation Trust Fund (MBIFCT) and to design a mechanism which would also include the Rwandan and DRC parts of the peace park area, looking at can be found in the World Bank/GEF trust fund construction for the protected
- 9. To lessen pressure on the Virunga region and on the ecology in general, the Support for small to medium industries and to the ICT sector, and energy (in the form of electricity) is an absolute requirement. A country like Rwanda ing the options to earn income from producing carbon credits under the Clean Development Mechanism (CDM) of the Kyoto Protocol. time qualify for the CDM. The Dutch CDM office at the ministry of VROM

management needs in the Poverty Reduction Strategy Papers (PRSP). With further deterioration of the environment, poverty and conflicts will increase. The embassies in the region and the Executive Directors of the Netherlands at the World Bank and the IMF will have to scrutinize the PRSPs when they

ON EMPOWERMENT AND TRAINING

- 11. After demobilisation and repatriation, the rebels, militias and refugees ple environmental restoration and protection, wildlife and park management
- credit facilities relevant for women in the rural areas should be added.



AFRICA

Virunga-Bwindi - AFRICA

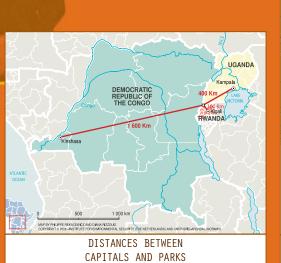


he **Great Lakes region** in Africa is a war zone where tribal conflicts mix with the aftermath of the Rwandan genocide, power struggles in the Eastern part of the Democratic Republic of Congo, the control over precious and strategic minerals, such as diamonds, gold, coltan and the illegal trade in timber and protected species. Many other African countries and their armies were involved and the humanitarian consequences are dramatic.

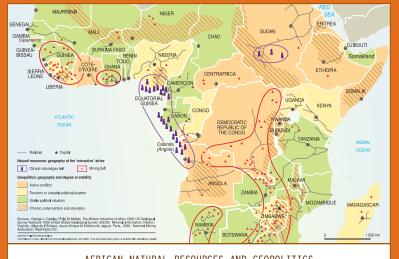
The war, both directly and indirectly (by causing refugee streams) caused widespread environmental destruction and so does the mining, logging and poaching. The protection of mountain gorillas in the border area of Rwanda, Uganda and the DRC, however, brings the three countries together, by creating employment, income, and basic health and education services for the local communities out of tourist revenues, creating incentives for co-operative protection.

The challenge now for these countries is to alleviate poverty; complement traditional forms of livelihood with sustainable alternatives; raise park management to the next level by establishing transboundary collaboration at the higher levels of administration in the 3 countries; explore and develop clean and safe alternative sources of energy in addition to hydroelectricity; assist families with education for children; provide equal opportunities to all; and install basic facilities in communities, for instance, access to water, sanitation, health care, schools and electricity. These countries have signed and ratified **—** Virunga-Bwindi all the major environmental related conventions and they have recognised the crucial role environmental conservation plays in the rest of the economy and the improvement of civil society. What the countries need first is that potential and

> current donors also recognise the importance of long term environmental conservation and start funding those needs •



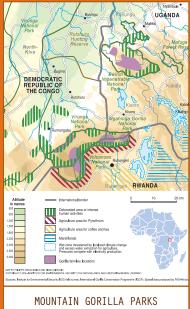








RIVER BASINS



he areas surrounding the afromontane and medium altitude forests shared by Rwanda, Uganda and the DRC are densely populated. Rural population densities average 300 persons per km². Around the protected areas, due to rich natural resources and soil, these population densities are even higher (Lanjouw et al., 2004). The need for fertile agricultural land pushes farmers to encroach the protected areas. Within a few weeks in 2004, Rwandan settlers invaded the national parks and converted 15 km² of the mountain gorilla habitat in the DRC for agricultural purposes (UNEP 2004). Deforestation, causing landslides and severe soil degradation. severely threatens the livelihood basis of subsistence farmers. Moreover, the competition for resources strongly contributes to tensions and conflicts in this region.



POPULATION MOVEMENTS

AND ENVIRONMENTAL PRESSURES