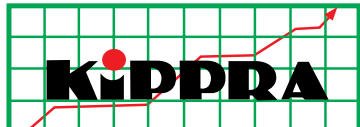
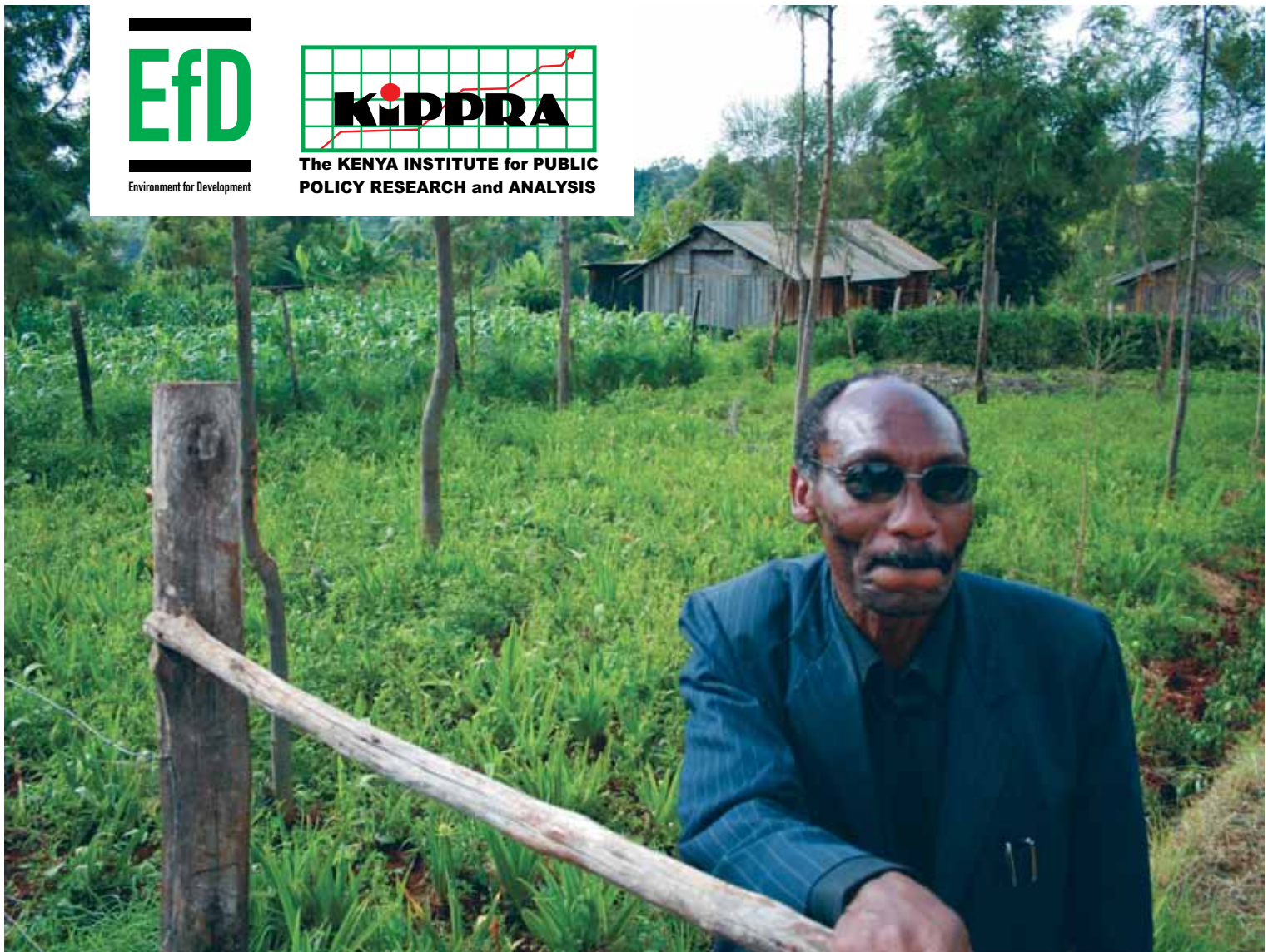


EfD

Environment for Development



The KENYA INSTITUTE for PUBLIC
POLICY RESEARCH and ANALYSIS



EFD INITIATIVE CENTER REPORT 2010: KENYA

EfD Kenya's focus is to build a healthy environment with sustainably managed natural resources and devoid of poverty so as to enhance the welfare of the Kenyan people. It is committed to continually improving environmental policy making and strengthening environmental economics capacity.

A large photograph of a savanna landscape in Kenya. In the foreground, a giraffe is grazing on green bushes. The background shows a vast, open plain with scattered trees and a clear blue sky with a few wispy clouds.

THIS REPORT

This report presents EfD Kenya, its members and work during 2010. The Kenyan node of the Environment for Development initiative is based at:

Kenyan Institute for Public Policy Research and Analysis (KIPPRA), Nairobi, Kenya

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www.efdinitiative.org/centers/kenya

Cover photo by Anders Ekbohm: Mr. Gerald M. Ngatia, resource person and local counterpart in EfD's field study in Kenya on the forest sector reform. M. Ngatia is Secretary of National Alliance of Kenya's Community Forest Associations, and Chairman of Hombe Community Forest Association.

Other photos:

James Kagwe, Anders Ekbohm, Karin Jonson, Karin Backteman

Graphic design: Anders Wennerström, Spiro Kommunikation

Layout: Karin Backteman

Nairobi National Park

A giraffe is shown in profile on the left side of the page, looking towards the right. The background is a savanna landscape with green acacia trees and a clear blue sky. The word 'CONTENTS' is written vertically in white capital letters along the giraffe's neck.

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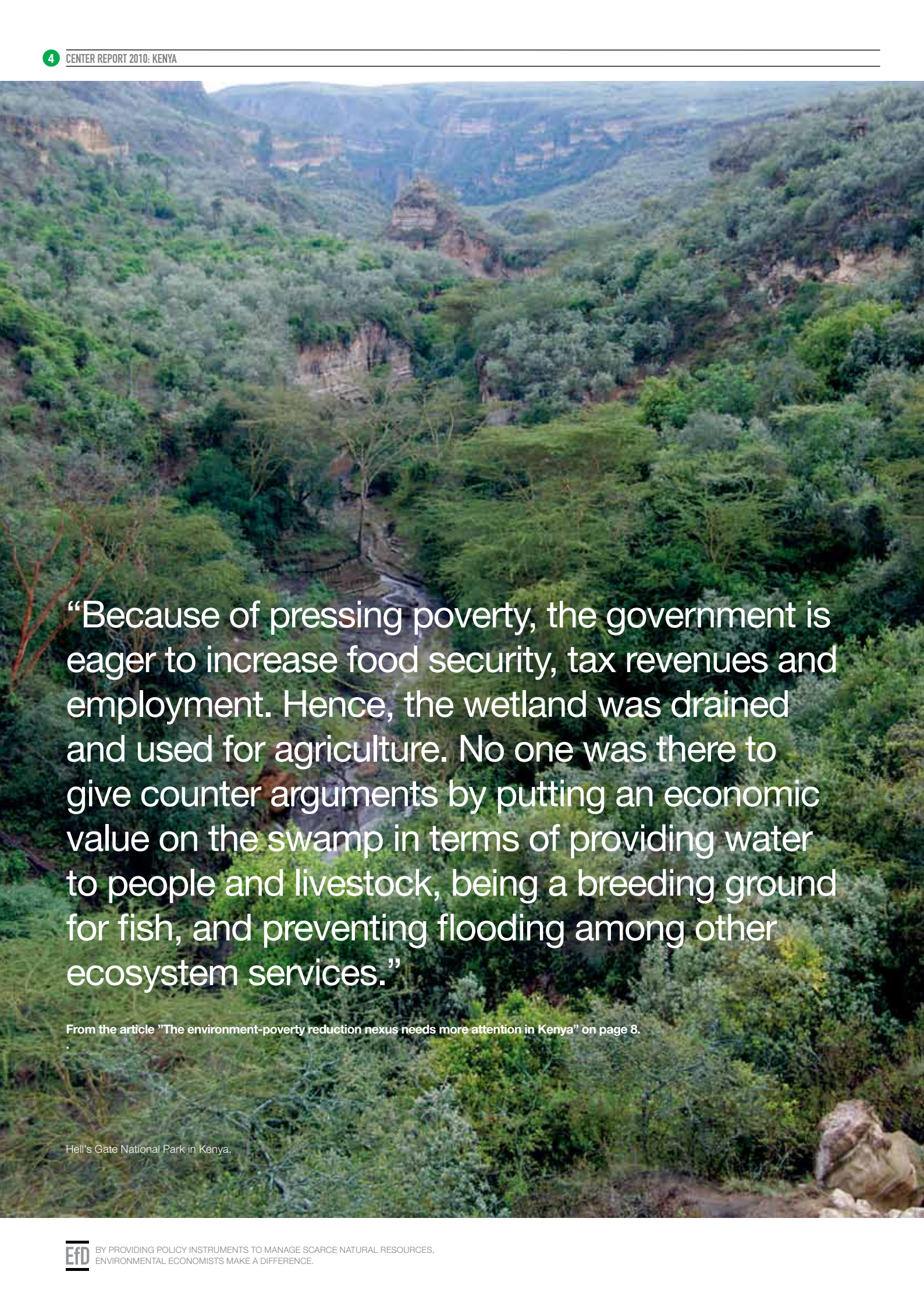
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EfD Centers



“Because of pressing poverty, the government is eager to increase food security, tax revenues and employment. Hence, the wetland was drained and used for agriculture. No one was there to give counter arguments by putting an economic value on the swamp in terms of providing water to people and livestock, being a breeding ground for fish, and preventing flooding among other ecosystem services.”

From the article “The environment-poverty reduction nexus needs more attention in Kenya” on page 8.

Hell's Gate National Park in Kenya.



Wilfred Nyangena

MESSAGE FROM OUR COORDINATOR

In the last year, Efd Kenya made considerable strides towards promoting the use of environmental economics tools to successfully shape our country's future, however, much more still remains to be done. It is therefore my great pleasure to share with you some of the major events/activities of 2010 in this report.

Building on experience from the previous years, we managed to work in close collaboration with individuals and institutions in public and private sector, policy research institutes and academia. Notable key partners that we collaborated with in the course of the year include the World Wildlife Fund (WWF), United Nations Environment Programme (UNEP), National Environment Management Authority (NEMA) among others. Following the appreciation of our efforts we plan to upscale these collaborative efforts in the coming year, 2011.

Besides research, as a Centre we also strive to promote capacity building through training of students. In this respect we continue to

work closely with universities, especially the University of Nairobi, School of Economics, where I and Paul were involved in teaching MSc and PhD classes. Geophrey, our Junior Research Fellow/Program Assistant was also involved in teaching undergraduate students in the University. We also managed to organize a seminar series on Forest Tenure Reforms in Kenya at the School in order to expose both students and teaching staff to our research and research themes.

At the research level, the Centre implemented two main projects which are detailed in the Annual Report. These were the Forest Management Reforms and Kenya's participation in the proposed REDD climate change mitigation scheme. We also gave one research grant to a PhD student from Wageningen University to support his thesis research work on the economics of sanitation in Kibera, Kenya's largest slum.

On the down side, the Centre has continued

to operate on a lean staff. At the beginning of 2010, we had a total of 4 staff; the Coordinator, a Post-doc Research Fellow, the Program Assistant/Junior Research Fellow and a Young Professional (YP). The YP program is an in-service training module for civil servants. The YP left mid-year, when their training programme came to an end in June. Towards the end of 2010, the position of the Post-doc fellow also became vacant when Dr. Paul Guthiga left to join the International Livestock Research Institute (ILRI). We will welcome and appreciate any efforts towards helping us recruit dedicated post docs for our Centre from any part of the world.

We welcome you to learn more about the centre's initiatives in 2010 by reading our annual report. We are committed to upscale our efforts in the coming year to ensure greater success of the program.

Wilfred Nyangena, Ph.D
Coordinator, Efd Kenya



FOURTH EFD ANNUAL MEETING COMPLETED

THE EFD ANNUAL MEETING 2010 IN ETHIOPIA, October 28-31, started with one day at UN Economic Commission for Africa focusing on how to make the most use of environmental economics research for development. Three days of research presentations and discussions followed together with key note speeches and a lecture on a multi-disciplinary approach to analyze Social Ecological Systems, designed by Nobel Laureate Elinor Ostrom and applicable for EfD's planned thematic research collaboration.

"Our objectives of the Policy Day was to disseminate selected work of EfD's research and its potential contributions to a key policy institution, UNECA, and other key stakeholders present at the meeting. We also wanted to share information across EfD centers on successful research-policy interactions, as well as increase our learning on how to translate research to policy more in general", says EfD Director Gunnar Köhlin.

The Policy Day was hosted by UN Economic Commission for Africa (UNECA) together with the Ethiopian EfD Center (Environmental Economics Policy Forum for Ethiopia which is hosted by the Ethiopian Development Research Institute).

Among the speakers were Desalegn Mesfin, Deputy Director General, Federal Environmental Protection Authority of Ethiopia, who opened the meeting. Anders Ekbom, EfD Research Fellow and policy analyst at the University of Gothenburg, spoke about research-policy interactions: models, approaches and lessons learned. Chantal Line Carpentier, Sustainable Development Officer, Division for Sustainable Development United Nations Department of Economic and Social Affairs, spoke about needs and opportunities to strengthen policy-research links on the economics of environment and climate change – perspectives from UNDESA.

Successful cases of EfD research-policy interactions were presented



The EfD Annual Meeting 2010 in Ethiopia was held at UNECA, UN Economic Commission for Africa, in Addis Abeba, and in Debrezeit. In the photo spread (page 6-7) from the left: Rahel Deribe, (lunch break in Africa Hall), Francisco Alpizar, Precious Zikhali and Wilfred Nyangena, group: Lunyu Xie, Edwin Muchapondwa, Ping Qin, and Razack Lokina. Precious Zikhali. Middle row: Ping Qin, Jintao Xu. Bottom row: Roger Madrigal, Razack Lokina, group: Thomas Sterner, Wisdom Akpalu, Peter Berck, and Chantal Line Carpentier, Jo Albers and Alemu Mekonnen, Mare Sarr, Gunnar Köhlin.

by Menale Kassie, former EfD Research Officer and now working for CIMMYT in Kenya, and by the EfD coordinators Jintao Xu, Professor at Peking University, and Francisco Alpizar, CATIE, Costa Rica. Please see all Policy Day speakers in the full program below.

The following three days of the EfD annual meeting were hosted by Alemu Mekonnen, EfD Research fellow and Coordinator of EfD Ethiopia, and held at Kuriftu Resort in Debrezeit. Most of the time was devoted to presentations and discussions on ongoing and planned EfD research.

One of the key note speakers was Roger Sedjo, RFF Senior Fellow and Director of RFF's Forest Economics and Policy. Sedjo spoke on the role forests can play in carbon capture: principles, costs and policies. The other key note speaker was World Bank Lead Economist Klaus Deininger, who spoke on large scale land acquisitions.

EfD Research Fellow Roger Madrigal from Costa Rica gave a lecture on the Social Ecological System Ontological framework, designed by professor Elinor Ostrom, who was awarded the 2009 Nobel Memorial Prize in Economic Sciences for her analysis of economic governance, especially the commons. Roger Madrigal made a long research visit to professor Ostrom at Indiana University before she received the prize, in order to develop the design of his research project on drinking water management.

"The ontological framework is a conceptual map for analyzing the interactions between humans and ecosystems. It builds on the last decades of findings in the literature of common-pool resources and collective action towards the management of natural resources", says Madrigal:

"This framework might help to conduct systematic diagnosis of the structure of the interactions between humans and ecosystems analyzed by EfD's scholars in different parts of the world."

RESEARCH POLICY INTERACTION

EfD Kenya actively participated in the preparation of the Kenya State of Environment (SoE) Report. Preparation of the SoE 2010 report was spearheaded by United Nation Environment Programme (UNEP) and National Environment Management Authority (NEMA). EfD Kenya underscores the importance of environment in realizing Vision 2030 in the Kenya Economic Report (KER) 2010. The World Wildlife Fund (WWF) has identified EfD Kenya as a strategic partner in the work to transform environmental governance in East Africa. The center partnered with WWF to assess the extent of environmental mainstreaming into planning and budgetary processes in Kenya, and to look at the impacts of trade and investment policies on environment and natural resource management in the country.

Local market outside Thika town, near Muranga district, sales of smallscale farmers' crop produced to earn cash incomes.

The environment-poverty reduction nexus needs more attention in Kenya

EfD Kenya notes in its commissioned report for World Wide Fund for Nature (WWF) that environmental issues are recognized as important at very high levels of planning in Kenya. Still, the environment-poverty reduction nexus has not received its due attention in terms of policy prioritization, money allocation, political and civil society support, and actual implementation.

IN THE VISION 2030, which is the development blueprint for the country, the Kenyan government claims to strive for social and economic development in a “clean and secure environment”, including an “increased forest cover and a reduced number of environment-related diseases”.

“Though there have been considerable efforts, we still have some challenges in mainstreaming environment in development.

Environmental issues are still not as prioritized as they ought to be,” says Dr Paul Guthiga, one of the EfD Kenya research fellows behind the report to WWF.

The report shows that goals of poverty reduction, improved livelihoods and economic development are intricately intertwined with environment and natural resource management. For most poor households, environment and stocks of natural resources are critical for liveli-

hoods and income generation. For instance, environmental assets amount to 26 percent of national wealth in developing countries, as opposed to 2 percent in OECD countries, according to the World Bank. Thus, according to the report authors, “capturing and integrating environmental concerns into development plans, government budgets, development programmes and projects, and in private initiatives is no longer optional”.

EfD Kenya partners with NEMA and UNEP to prepare the Kenya State of Environment Report

EfD Kenya actively participated in the preparation of the Kenya State of Environment (SoE) Report. Preparation of the SoE 2010 report was spearheaded by United Nation Environment Programme (UNEP) and National Environment Management Authority (NEMA). Section 9 subsections 2(p) of the Environment Management Coordination Act No 8 of 1999 requires that a State of Environment report is prepared and submitted to the National assembly for endorsement every year. The Act also mandates the Authority to coordinate the exercise and present the report to the National assembly. The SoE report documents environmental issues and potential interventions that need to be undertaken by

various sectors towards enhancing the status and quality of the environment. This report also forms the basis for the preparation of operational sector policies, enhancement of the integration of environmental concerns into development processes, and preparation of environmental action plans. EfD-K was tasked to provide guidance on highlighting policy issues under each sector covered in the report and giving possible intervention measures.

Developing the Kenya Economic report submitted to the Parliament

The center also participated in the preparation of the Kenya Economic Report (KER) 2010. KER is produced every year by KIPPRA to inform



The World Wide Fund for Nature has identified EfD Kenya as a strategic partner in the work to transform environmental governance in East Africa. The

recommendations provided by EfD in June 2010 were based on assessments of environmental mainstreaming into planning and budgetary processes in Kenya, and of the impacts of trade and investment policies on environment and natural resource management in the country.

For the report, Paul Guthiga and his colleagues Wilfred Nyangena, Tom Kinara, Geophrey Sikei and Maurice Ogada conducted an extensive review of research reports, budget documents and development plans, and also interviewed a number of employees in various ministries.

"Among the problems we found is that Ministry staff are often reshuffled, and they often do not have the skills to articulate environmental concerns in planning processes. It's clear that there are not enough environmental economists to put enough value on the environment," says Guthiga.

One example of this is what happened to the Yala Swamp, a wetland in western Kenya. Because of pressing poverty, the government is eager to increase food security, tax revenues and employment. Hence, the wetland was drained and used for agriculture. No one was there to give counter argu-

ments by putting an economic value on the swamp in terms of providing water to people and livestock, being a breeding ground for fish, and preventing flooding among other ecosystem services.

"Sometimes the government is too eager to get investments even if it is at the expense of the environment," says Guthiga.

Environmental Impact Assessment for all deserving projects

One intervention to address the root causes of unsustainable exploitations of environmental resources is to undertake an Environmental Impact Assessment for all deserving projects and compel private investors to embrace environmental responsibility. This is a requirement by law in the Environment Management and Coordination Act (EMCA) of 1999, but direct economic return often overrides environmental concerns.

The fact that environmental mainstreaming is not given enough priority in terms of staff and money can be exemplified by the process of preparing the District Environmental Action Plans (DEAPs). A DEAP is supposed to, according to EMCA, explain the environmental problems and solutions and lay out a plan of action for the next five years.

"This requires for instance stakeholder meetings and data collection, such as water sampling. But very little money is given. For example, the current DEAP (2009-2013) of Kwale, a coastal District of Kenya, was only allocated about 6 615 Kenya shillings. The district is huge, 105 000 hectares, but has only one environmental officer. This money,

which is less than 100 US dollars, will not even allow the environmental officer to drive to the other end of the district," says Guthiga.

The EfD report, which is intended to help the WWF formulate future strategies, was presented at a WWF workshop in June 2010 that was attended by representatives of the government, the private sector, academia and NGOs.

"The workshop meant that they also got to know about EfD. Our host institution KIPPRA is known for economics, and EfD now becomes the KIPPRA flagship for environmental issues," says Guthiga.

WWF recommended EfD for cooperation with NEMA

After the workshop, the WWF recommended EfD for cooperation with NEMA, the National Environmental Management Authority. Before contacting EfD-Kenya, NEMA read up on the organization via its website and noted that, they told Guthiga later on, "These are the people who can help us do this". Hence, Guthiga is currently assisting NEMA in analyzing the integration of environmental action plans in overall national planning.

"I'm very pleased and hopeful about this cooperation because it opens up a window for change. The EMCA has to be revised to be compatible with Kenya's new constitution, and when the law changes the county governments can be put in charge of the environmental planning and will then hopefully prioritize environmental concerns and thus set aside more resources."

RESEARCH POLICY INTERACTION

two things, performance of the economy during the preceding financial year and economic prospects for the next three financial years. The theme for KER 2010 was Enhancing Sectoral Contribution towards Reducing Poverty, Unemployment and Inequality in Kenya. EfD-Kenya was mandated to discuss the Environment section of the report. The section analyzed the potential contribution of the environment towards realization of Kenya's Vision 2030. This report will be submitted to the Minister responsible for Planning and National Development. It is meant to inform the national planning and budgetary process.

Poverty Environment Partnership Meeting

EfD Kenya was represented at the 15th meeting of the Poverty Environment Partnership (PEP 15) by the center coordinator, Dr. Wilfred Nyangena. The meeting took place in March 2010, in Lilongwe, Malawi, and was co-organized by UK Department for International Development, Organisation for Economic Co-operation and Development (OECD), the United Nations (UN) and the World Bank, in partnership with the Government of Malawi. The meeting was attended by representatives from bilateral donor organizations, UN Development Programme (UNDP), UN Environment Programme (UNEP), the World Bank, the European Commission, developing and industrialized country governments, African stakeholders, international and national non-governmental organizations (NGOs) and research institutions. The meeting convened under the theme "Climate and Environment Mainstreaming and the Green Economy to Achieve the Millennium Development Goals." Wilfred gave a presentation on Kenya's perspective towards a green economy. Using the forestry sector as a case, he showed how undervaluation of the forest sector has affected the government's allocation of resources to the sector. This situation is also experienced in the other sub-sectors of the environment. The following pre-requisites were highlighted; the need to, have clear and generally acceptable definition of natural resources e.g. forest; develop skills to capture the non-monetized values of these resources; availability of comprehensive quality data for capturing use and non-use forest values; clearly defined property user rights and tenure regimes to avoid leakages; clear benefit sharing mechanisms and capacity (technical, budgetary allocation etc).

In service training for e.g. civil servants

In 2010, the center recruited a young professional. The YP, who was an

employee of government, under the Ministry of Livestock development, was attached to the centre for a whole year and worked on the Forest Management Reforms project. During his tenure, the YP was trained on how to undertake public policy research and analysis. He has since produced a discussion paper from his research work and the same was presented during the Annual meeting in Ethiopia.

Policy links

- The School of Business, Economics and Law at the University of Gothenburg
- Kenya Institute for Public Policy Research and Analysis: www.kippira.org
- School of Economics, University of Nairobi www.uonbi.ac.ke
- Kenya Wildlife Service www.kws.org
- National Environment Management Authority: www.nema.go.ke
- World Wildlife Fund: www.panda.org
- African Economic Research Consortium (AERC) www.aercafrica.org

Policy seminars, workshops and conferences

- The Fifteenth Poverty Environment Partnership (PEP 15) Meeting held on 1 to 5 March 2010 in Malawi, and featured the theme "Climate and Environment Mainstreaming and the Green Economy to achieve the Millennium Development Goals"
- UNEP and NEMA workshops on State of Environment Report 2010, in Naivasha and Nairobi, September and October 2010 respectively.
- International Society for Ecological Economics (ISEE) Conference, Olderburg and Bremen, Germany, in August 2010, organized by ISEE
- A seminar series on Forest Tenure Reforms in Kenya, at the School of Economics, University of Nairobi in March 2010, organized by EfD-Kenya
- ReSAKSS Stakeholders conference on country outlook reports, Nairobi, Kenya, December 2010
- Futures Agriculture Consortium (FAC) Climate Change Theme seminar, Nairobi, October 2010
- Park Pricing Workshop in Nakuru, October 2010, organized by EFD-Kenya



Near Lake Naivasha, Kenya

RESEARCH 2010: PUBLICATIONS

PEER REVIEWED

Ogada Maurice, Wilfred Nyangena and Mahmud Yesuf, 2010, "Production risk and farm technology adoption in the rain-fed semi-arid lands of Kenya", AFJARE, 2010, vol. 4, No. 2, June, pp. 159-74

EFD DISCUSSION PAPERS

Ndiritu Simon Wagura and Wilfred Nyangena, 2010, 'Environmental goods collection and children's schooling: evidence from Kenya' Efd Discussion Paper 10-18, Environment for Development Initiative and Resources for the Future, Washington DC, August 2010.

Akpalu, Wisdom and Anders Ekbom(2010) "The Bioeconomics of Conservation Agriculture and Soil Carbon Sequestration in Developing Countries", Efd Discussion Paper 10-07,

a joint publication of the Environment for Development Initiative and Resources for the Future (www.rff.org), Washington DC. March 2010

BOOKS

Strategic Environmental Assessment in Policy and Sector Reform – Conceptual Model and Operational Guidance, 2011 The International Bank for Reconstruction and Development/ The World Bank

BOOK CHAPTER

Nyangena, W., Guthiga P., and G. Sikei (2010). Environment and Natural Resources in Kenya Economic Report 2010: Enhancing Sectoral Contribution towards reducing poverty, unemployment and inequality in Kenya. KIPPRA Publication

REPORTS

Mainstreaming Environment into development in Kenya: Practices, challenges and prospects. Final Report, 2010, to World Wildlife Fund (WWF). Prepared by Efd-Kenya.

Impacts of trade and investment on Environment and Natural Resource Management in Kenya. Final Report, 2010, to World Wildlife Fund (WWF). Prepared by Efd-Kenya.

Kenya State of Environment Report 2010. Policy options chapter. UNEP Publication



PROJECTS

The Economics of sanitation in Kibera: Investigating the characteristics of demand by tenants and constraints to investment by structure owners

This study by EfD Kenya associate, Fred Owegi, investigates sanitation in Nairobi's Kibera slums in the context of the slum rental market, insecure tenure and unsustainable technologies. The study analyzes the characteristics of demand for improved sanitation by Kibera's residents before evaluating the impacts of the settlement's tenure system on structure owners' willingness to invest in improved sanitation. An assessment is made of the economic and financial sustainability of sanitation technologies in order to better understand constraints to the scaling up of those technologies. The Principal Investigator has collected data and data analysis was on-going by the time of reporting.

Forest management reforms

In the last two decades, Kenya's forest resources have suffered immense destruction especially due to increased demand for agricultural land. This has had adverse effects on the

hydrological cycle, leading to water shortages across the country. Currently, the forest cover in the country stands at less than 3 percent, much lower than the internationally recommended 10 percent. This underscores the need for re-examination of the country's forest management policies. In the reporting period, the Centre commissioned two studies aimed at establishing the uptake of farm forestry initiatives by rural households and preference of communities to different forest management regimes. Data was collected for the studies and this has since been analyzed. There are two draft discussion papers that have been produced from these studies.

Climate change: Ex-ante Economic Analysis of Kenya's Participation in the proposed Reduced Emission from avoided Deforestation (REDD) climate mitigation scheme

Tropical deforestation, degradation and forest clearing is an important contributor to green house emissions. There are on-going global climate policy initiatives aimed at compensating tropical forest nations for reducing emissions

of carbon from deforestation and degradation. The initiatives focus on establishing and maintaining both primary and secondary forests to act as carbon sinks especially in tropical countries. There are plans to include Reduced Emissions from avoided Deforestation and Degradation (REDD) as part of the Clean Development Mechanism (CDM) after expiry of the current Kyoto protocol in 2012. The idea behind REDD is to establish a viable, internationally robust and well funded mechanism that would give tropical forest countries economic incentive to slow down the rate at which they deforest and degrade their forests. Kenya is one of the countries in Africa that will participate in the REDD scheme once it is established. This study is on-going and is aimed at undertaking an evidence based research that will inform policy makers of the country's potential to participate in REDD scheme. This comes at a time when the debate on REDD is gaining momentum in the country and varied prepositions are being advanced. EfD-K center will use this opportunity to instigate high level policy debates on this issue so as to create public awareness.

EfD associate Daniel Slunge in a study of the role of institutions for Kenya's forest sector reform, conducted together with Wilfred Nyangena, Paul Guthiga and Anders Ekbom.

RESEARCH PRESENTATIONS AT WORKSHOPS, MEETINGS & CONFERENCES

PEP Meeting /UNEP

Wilfred Nyangena
Mainstreaming Environmental Fiscal Reforms:
Experiences from Kenya

UNEP: Environment Outlook Workshops

Wilfred Nyangena/Geophrey Sikei
Policy Options on the State of Environment for
Kenya

International Society for Ecological Economics (ISEE) Conference, Oldenburg and Bremen, Germany

Geophrey Sikei
Environmental Conservation, Poverty, Labour
hoarding and Output Markets in Africa: Evi-
dence from Western Kenya

EfD 4th annual meeting, Ethiopia

Paul Guthiga
• Assessing economic potential of reducing
deforestation and degradation in a Kenyan
tropical rainforest: Local community
perspective

Geophrey Sikei

- Perceptions of the Local Community at
Kakamega, Kenya on Forest Management
Attributes

Moses Ikiara

- Tracking Progress of Water Sector Reforms
in Kenya: the Role of Institutions in Water
Resources Management

Ogada Maurice Juma

- The New Forest Management Regime in
Kenya: Effects on Household Farm Forestry
Decisions in Kakamega

School of Economics, University of Nairobi.

Wilfred Nyangena/Paul Guthiga/ Maurice
Ogada
Forest Tenure Reforms in Kenya

ReSAKSS Stakeholders conference on country outlook reports, Nairobi, Kenya

Ogada Maurice Juma
Trends and outlook report on key agriculture
and rural development indicators in Kenya

KIPPRA Discussion Paper Seminars

Wilfred Nyangena/ Paul Guthiga/Geophrey
Sikei/Maurice Ogada

Futures Agriculture Consortium (FAC) Climate Change Theme, Nairobi

Paul Guthiga

ACADEMIC CAPACITY BUILDING

EfD Kenya fellows contribute in teaching both undergraduate and post graduate programs in environmental economics at the School of Economics; the University of Nairobi and other affiliates such as the International Development Studies (IDS) and the School of Journalism. The fellows are also involved in the supervision of Masters and PhD thesis programs and provide financial support among others to graduate students undertaking a thesis in environmental and resource economics. Besides teaching and supervision, the EfD-K also incorporates students who are through with their course works to some of its on-going projects. This way, the students are able to identify with ease, their thesis research interests.

Courses

EfD-Kenya Research Fellows are involved in teaching of undergraduate and post-graduate students at the School of Economics, University of Nairobi. Environmental Economics courses taught are listed below.

Undergraduate courses

- Resource Economics
- Environmental Economics

Graduate courses

- Resource Economics
- Environmental Economics
- Environmental Valuation and Policy

Recommended Masters Programs

- Master of Science in Economics with a track in environmental economics at the Graduate School, University of Gothenburg, School of Business, Economics, and Law
- Masters of Arts in Economics, University of Nairobi
- Masters of Arts in Economic Policy Management, University of Nairobi

Recommended PhD Programs

- PhD in Economics, School of Economics, University of Nairobi
- PhD in Environmental Economics, Environmental Economics Unit, Department of Economics School of Business, Economics and Law, University of Gothenburg

MSC THESIS TITLES AND NAMES

An Assessment of factors influencing sustainable forest management in lower Tana River, Kenya

Student- Millicent Ollunga
Supervisor- Paul Guthiga

An assessment of Awareness and Health effects of good agricultural practices in Kenya's Coffee industry- the case of pesticide use by farmers in Thika district

Student-Phyllis Githaiga
Supervisor- Paul Guthiga

An assesment of water use efficiency in Lake Naivasha Basin, Kenya

Student-Georginal Wambui
Supervisor- Paul Guthiga

The value of City Park in Nairobi: A Discrete Choice Modeling Approach

Student-Dunstan Olwodi
Supervisor- Wilfred Nyangena

PHD THESIS TITLES AND NAMES

The role of Grameen based micro-credit programmes in improving small-scale maize production in Laikipia district, Kenya

Student-Margaret Karienyne
Supervisor- Paul Guthiga

Social Interactions and Returns to Farm Inputs in Smallholder Agriculture in Kenya.

Student -John Kamau Gathiaka
Supervisor- Wilfred Nyangena

Members of the Hombe Forest Community Association, south of Mount Kenya, were interviewed by Daniel Slunge, Wilfred Nyangena, Paul Guthiga and Anders Ekbohm during a field study of the role of institutions in Kenya's forest sector reform.

Under graduate courses in environmental economics

Resource Economics
 Environmental Economics
 Environmental Economics
 Natural Resource Economics

Students

68
 68
 20
 30

Fellow

Wilfred Nyangena and Philip Cook
 Wilfred Nyangena
 Paul Guthiga
 Paul Guthiga

Master courses in environmental economics

Environmental Economics
 Environmental Valuation

Students

16
 17

Fellow

Paul Guthiga and Wilfred Nyangena
 Paul Guthiga

PhD courses in environmental economics

Environmental Economics
 Resource Economics

Students

7
 7

Fellow

Wilfred Nyangena and Paul Guthiga
 Wilfred Nyangena



SPREADING THE WORD

News about research and policy interaction.

Members of the Hombe Forest Community Association, south of Mount Kenya.



2010-12-31

UNEP: Environment Outlook Workshops

The series of meetings organized by UNEP and National Environment Management Authority (NEMA) were meant to expose the authors involved in the development of the Kenya State of Environment Report to policy relevant issues that each sub-sector of the environment needs to address.

2010-12-11

Kenya State of Environment Report

EfD-Kenya actively participated in the preparation of the Kenya State of Environment (SoE) Report. Preparation of the SoE 2010 report was spearheaded by United Nations Environment Programme (UNEP) and National Environment Management Authority (NEMA).

2010-10-31

EfD 4th annual meeting, Ethiopia

EfD Kenya research fellows, Dr. Paul Guthiga, Dr. Moses Ikiara, Geophrey Sikei and Maurice Ogada all presented papers during the meeting in Ethiopia.

2010-10-07

The environment-poverty reduction nexus needs more attention in Kenya

EfD Kenya notes in its commissioned report for World Wide Fund for Nature (WWF) that environmental issues are recognized as important at very high levels of planning in Kenya. Still, the environment-poverty reduction nexus has not received its due attention in terms of policy prioritization, money allocation, political and civil society support, and actual implementation.

2010-09-21

EfD research on REDD+ discussed at UNITAR

Yale conference Daniel Slunge, Policy Analyst at the Environmental Economics Unit, Uni-



Participants at the park pricing workshop in Kenya during a visit to Lake Nakuru (the home of the lesser flamingos). From Left; Geophrey Sikei (EfD Kenya), Aloyce Hepelwa (EfD Tanzania), Paul Guthiga (EfD Kenya), Margaret Banga (EfD Tanzania), Rahel Deribe (EfD Ethiopia), Johanne Dikgang (EfD South Africa).



The forests south of Mount Kenya can now be used for pasture.



Nairobi National Park

versity of Gothenburg, was invited speaker at the second Conference on Environmental Governance and Democracy: Strengthening Institutions to Address Climate Change and Advance a Green Economy, organized by the United Nations Institute for Training and Research (UNITAR) and Yale University, 17-19 September 2010.

2010-08-30

International Society for Ecological Economics (ISEE) Conference, Oldenburg and Bremen, Germany

The 11th Biennial ISEE Conference, 2010 took place from 22 – 25 August, 2010 with the theme: “Advancing Sustainability in a Time of Crises”. The conference was held in the two

adjacent cities of Bremen and Oldenburg. Geophrey Sikei of EfD-K presented a paper on “Environmental Conservation, Poverty, Labour hoarding and Output Markets in Africa: Evidence from Western Kenya”

2010-08-28

Kenya Economic Report 2010

EfD Kenya underscores the importance of environment in realizing Vision 2030 in the Kenya Economic Report (KER) 2010.

2010-03-29

Poverty Environment Partnership Meeting

EfD Kenya participated in the Poverty Environment Partnership meeting to discuss the

mainstreaming of climate and environment and the Green Economy to Achieve the Millennium Development Goals

2010-02-26

“Kenya’s natural resources need economic instruments”

EfD researchers invited to public hearing: “Policy processes provide windows of opportunity to discuss research results, highlight the importance of natural resources to the economy – and get impact,” says Paul Guthiga. Guthiga is one of the EfD research fellows who were invited by Kenya’s Ministry of Finance to a public sector hearing held to discuss the draft budget proposal on Environment, Water and Sanitation for 2009-2011.

WEBSITE VISITORS AND NUMBER OF DOWNLOADS

The website is an important channel for making EfD research work visible – and it is becoming more and more visible. The web statistics for 2010 shows that more than 35,000 people visited our website this year, and the number of visits was 48,000. When we compare 2010 and 2009, we find that there are more visits, more unique visitors, and more pageviews in 2010 than in 2009. File downloads is another web statistics figure. In 2010, 267 different files have been downloaded a total of 4,901 times.

EfD Website

47,695

Visits in 2010

Of all these visits were 72.84 percent new visits, a 32.29 percent increase compared to previous year (36,054 visits.) Unique Visitors: 35,435 an increase of 34.58 percent compared to previous year (26,330 unique visitors.)

133,296

Pageviews in 2010

This is +16.26 percent compared to previous year (114,654 pageviews.)

4,901

File Downloads in 2010

In 2010, 267 different files have been downloaded a total of 4,901 times.

EfD Kenya Website Section

4,227

pageviews in 2010 (310 pages).

Top 7 Most visited Kenyan webpages 2010

Home page Kenya	782 views	About	323 views
kenyas-naturalresources-need-economicinstru-		Projects	139 views
ments-efd-researchersinvited-to...	681 views	Publications-Projects	105 views
People	423 views	policy-making	103 views

File downloads - Top 5 list of 2010

First a policy brief/workshop summary on "Policies to increase forest cover in Ethiopia: A summary of the main outcomes of a workshop in 2007". It has been downloaded 194 times this year.

Second is a journal article by Jesper Stage, "Economic valuation of climate change adaptation in developing countries". It has been downloaded 119 times this year.

Third is an EfD/World Bank report by Yesuf Mahmud, Alemu Mekonnen, Menale Kassie, John Pender, 2007, titled "Cost of Land Degradation in Ethiopia: A critical review of past studies", report, EfD/WB. It has been downloaded 109 times this year.

Fourth is an EfD Discussion Paper by Zenebe Gebreegziabher, Alemu Mekonnen, Menale Kassie, and Gunnar Köhlin, "Household Tree Planting in Tigray, Northern Ethiopia". It has been downloaded 102 times this year.

Fifth is a job advertisement from CIFOR seeking doctoral students interested in research on REDD for possible collaboration with their four-year Global Comparative Study on Reducing Emissions from Deforestation and Degradation (GCS-REDD). It has been downloaded 97 times this year.

Top Landing Pages

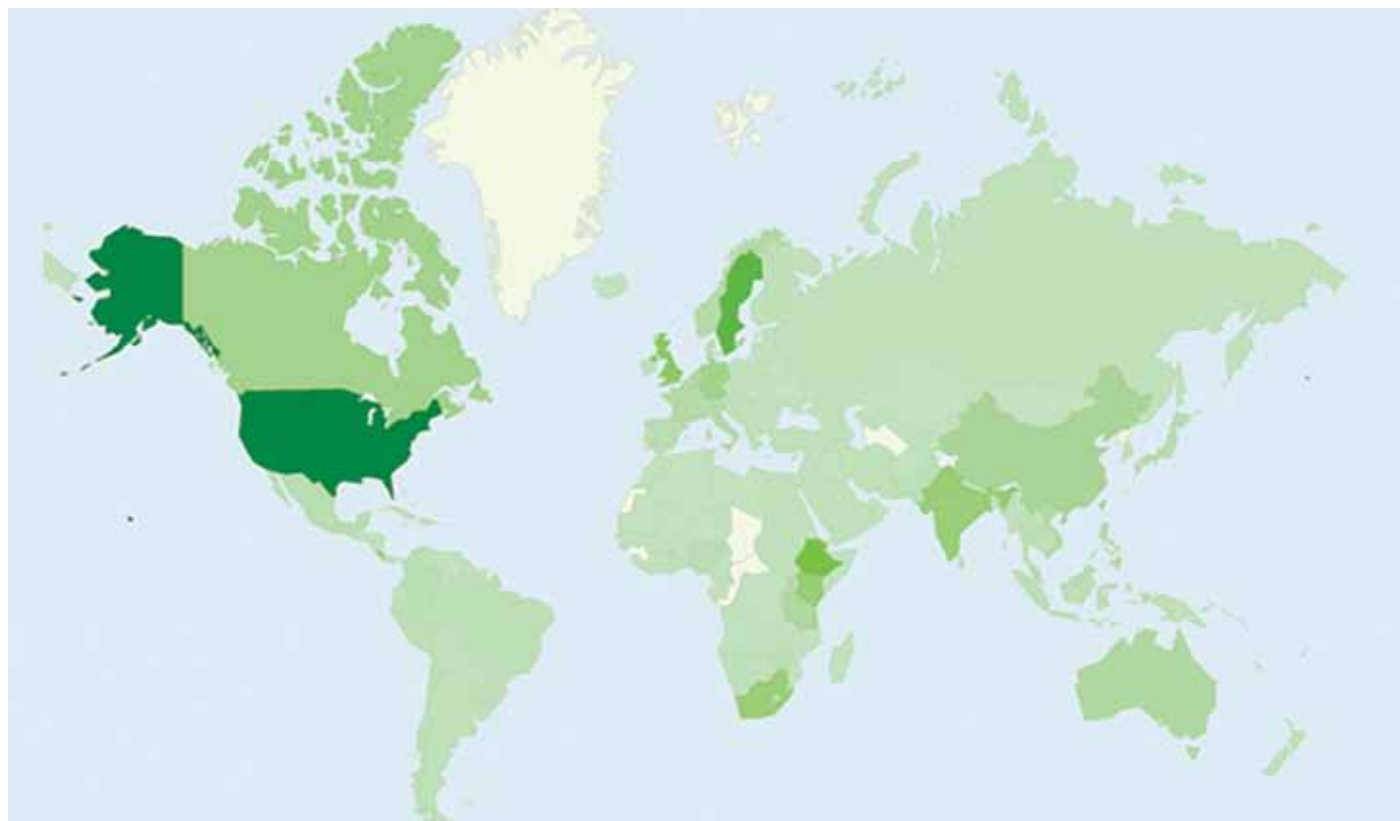
47,660 visits entered the site through 2,949 pages.

The Top Landing pages were:

First page	5,568 entrances
Over-fishing-of-nile-perch-in-lake-victoria	724 entrances
Kenyasnatural-resources-need-economic-instruments-efdresearchers-invited-to-public-hearing	611 entrances
Policies-to-increase-forest-cover-in-ethiopia	555 entrances
The-economics-ofsolid-waste-management-	

the-case-of-kampala-uganda	546 entrances
Essays-onenvironmental-policy-making-in-developing-countriesapplications-to-costa-rica	481 entrances
Incentivebased-regulation-of-co2-emissions-from-internationalaviation	479 entrances
The-kenyavision-2030-and-the-environment-issues-and-challenges	479 entrances
Theprogress-of-ghg-markets-opportunities-and-risks	471 entrances
Casestudy-2-zimbabwe-economy-wide-policies-anddeforestation-applied-general-equilibrium-modelling	412 entrances
Unexpert-group-meeting-how-can-researchers-contributeto-productive-and-sustainable-agriculture-in-africa	393 entrances
Job-openings	336 entrances
Eeu-Sweden/Academic-program-phdprogram	300 entrances

Top Countries: People in 190 countries visited the site and as seen in the map below there are few completely white nations on the world map. The darker green color indicates more web traffic.



Greenaccounting-puts-price-on-ethiopian-soil-erosion-anddeforestation 279 entrances
Workshop-on-accounts-of-land-resources-ofethiopia 266 entrances

Top Content

9,660 pages were viewed a total of 133,296 times.

The most visited pages were:

First page	8,615 pageviews
Job-openings	2,083 pageviews
Ethiopia	1,235 pageviews
central-america	1,089 pageviews
EFD/About	1,037 pageviews
Central-america/People	863 pageviews
Policies-to-increaseforest-cover-in-ethiopia	805 pageviews
Overfishing-of-nile-perch-in-lake-victoria	794 pageviews
Kenya	782 pageviews

china	751 pageviews
Researchfellows	728 pageviews
Publications	691 pageviews
Kenyas-naturalresources-need-economicinstruments	681 pageviews
South-africa	663 pageviews
Funding	647 pageviews
The-economics-of-solidwaste-management-the-case-ofkampala-uganda	643 pageviews
People	631 pageviews
South-africa/People	610 pageviews
Tanzania	582 pageviews

Top 20 countries

People in 190 countries visited the site. The Top

Twenty countries were:

United States	9,266 visits
Ethiopia	4,213 visits
Sweden	3,321 visits

United Kingdom	2,968 visits
South Africa	2,212 visits
Kenya	2,182 visits
India	2,119 visits
Costa Rica	1,639 visits
Canada	1,448 visits
Germany	1,361 visits
China	1,090 visits
Tanzania	925 visits
Netherlands	800 visits
Australia	792 visits
Norway	624 visits
Italy	587 visits
France	573 visits
Philippines	558 visits
Vietnam	501 visits
Uganda	484 visits

THE KENYAN NODE IN THE EFD NETWORK

EfD-Kenya is one of the six centers in the EfD initiative. It aims at working in close collaboration with individuals and institutions in the public and private sector, policy research, and academia both at the local and international level. The center's host and main executing institution since inception has been the Kenya Institute for Public Policy Research and Analysis (KIPPRA), a public policy think tank. KIPPRA was rated as one of the most reputable public policy research institutions in Africa (McGann Think Tanks Report). In KIPPRA, EfD-Kenya has been able to establish important networks with policy makers both locally and internationally.

Supported by the Swedish International Development Cooperation Agency (Sida), EfD-Kenya in collaboration with the School of Economics at the University of Nairobi and the Environmental Economics Unit (EEU) at the University of Gothenburg conducts research and training in environmental and resource economics.

EfD-Kenya is committed and focused on improving and strengthening the integration and mainstreaming of environmental issues in planning and public policy in Kenya. It aims to do this by:

- i. Providing an interface between policy makers and academia;
- ii. Conducting high quality research and policy analysis in the area of environment and natural resources and their optimal exploitation for sustainable development;
- iii. Building capacity in environmental economics

by strengthening the existing academic programs in the discipline, collaborative research and advanced short courses for forum members;

- iv. Building capacity in the realm of environmental policy analysis through in-service training and short courses for policy makers and implementers;
- v. Policy outreach and dissemination of research findings through policy briefs, research papers, workshops, seminars and publications;
- vi. Peer networking and learning through regular forum meetings and exchange programs with other regional and international centers.

Links with other Institutions

The centre is affiliated to the following institutions:

KIPPRA

The Kenya Institute for Public Policy Research and Analysis (KIPPRA) is a semi- autonomous public institution established under Kenya's State Corporations Act to support the public policy process in the country. The institute performs this mandate by conducting objective and high quality research and policy analysis in all sectors of the economy, and by building the capacity of public officials and other stakeholders.

The institute has grown into a reputable source of information, earning itself considerable trust and credibility from the Government of Kenya, donors, and the private sector, largely because of its objectivity and commitment to high quality work.

School of Economics

The School of Economics is based at the University of Nairobi. It offers both under-



Wilfred Nyangena



Geophrey Sikei



Moses Ikiara

Our networks

The center continues to grow into a reputable source of information on environmental challenges facing policy makers in the country. It is gaining considerable trust and credibility in the face of both public and private institutions. The number of institutions that are interested in partnering with EfD Kenya on various projects is a clear indication of the network strength that is growing. It has a strong working relationship with reputable institutions in the country that include, National Environment Management Authority (NEMA), Kenya Institute for Public Policy Research and Analysis (KIPPRA), United Nations Environment Programme (UNEP), ICRAF, World Wildlife Fund (WWF), Kenya Wildlife Service (KWS), Kenya Forest Services, Kenya Forestry Research Institute (KEFRI) among others.

Funders/Donors

Swedish International Development Cooperation Agency (Sida)

Total number of staff in full time equivalent:	1
Number of donors	1
1) Sida	SEK 940004
Sida/EfD funding as share of total center budget (incl eg univ salary)	100%

graduate and masters specialization courses in environmental and resource economics. These are complemented by the collaborative courses under the African Economic Research Consortium (AERC) joint electives facility.

Staff

The centre operates with a lean staff of 3 members (Coordinator, post-doc researcher and Junior Research Fellow/Program Assistant). At the beginning of 2010, the centre recruited a new staff, Geophrey Sikei, who replaced Maurice Ogada as the Junior Research Fellow. The post-doc position fell vacant towards the end of 2010 following the departure of Dr. Paul Guthiga to ILRI.

Wilfred Nyangena, PhD

COORDINATOR, EFD KENYA

Wilfred Nyangena is currently the coordina-

tor of EfD Kenya and a senior lecturer at the School of Economics, University of Nairobi. His areas of interest include development, poverty, valuation and environmental economics with a bias on the interaction between poverty and environmental variables. He holds a PhD in Economics from the University of Gothenburg, Sweden. Wilfred has won research grants in his areas of specialization from both local and international organizations. Nyangena has research experience on policy links with the African Institute for Capacity Building (AICAD) under which he has worked on issues regarding the poverty-environment nexus. His research work has been published in the Environment, Development and Sustainability journal.

Paul M. Guthiga, PhD

RESEARCH ASSOCIATE, EFD KENYA

Dr. Paul M. Guthiga is a research associate with EfD initiative in Kenya. Paul was a Post-

Doc fellow with EfD-K from 2008 to December 2010. He has since joined the International Livestock Research Institute (ILRI) as a Policy Analyst. Before joining EfD, he held a short post-doc position at the center for development research (ZEF), Germany. He holds a PhD in Agricultural Economics from the University of Bonn, Germany. His areas of research interest include; economics of biodiversity conservation, environmental valuation, natural resource governance and economics of climate change.

The Kenyan EfD Center – EfD Kenya is hosted by Kenyan Institute for Public Policy Research and Analysis (KIPPRA), Bishops Garden Towers, Second Floor, Bishops Road, Box 56445-00200, Nairobi, Kenya, Tel.+254-20-2719933/4, Fax.+254-20-2719951. Coordinator is Wilfred Nyangena. E-Mail: wnyangena@kippra.or.ke, Photo by Ting Chen.



Paul Guthiga



THE EFD INITIATIVE IN BRIEF

The overall objective of the EfD initiative is to support poverty alleviation and sustainable development through the increased use of environmental economics in the policy making process. Through local capacity building in environmental economics focusing on research, policy advice, and teaching, the EfD centers in Central America, China, Ethiopia, Kenya, South Africa, and Tanzania strive to contribute to better environmental policies and poverty reduction.

The EfD research emanates from the policy priorities of the host countries. This has led to a research focus on natural resources. The research-policy impact is increasing. The “EfD approach” is to build strong long-term collaborations between academics and with key ministries and decision makers. In addition, environmental economists are trained in master and doctoral programs in the respective country.

The Environmental Economics Unit at University of Gothenburg is coordinating the initiative. Resources for the Future in Washington DC is a partner involved in research and publication of the EfD/RFF discussion paper and book series. The EfD initiative started in 2007 and receives core support from the Swedish International Development Cooperation Agency (Sida). EfD builds on the environmental economics capacity building program that Sida has been supporting at University of Gothenburg since 1991 as a tool to implement sustainable development. The program, including EfD, is designed to enable researchers trained abroad to come home and become productive as applied researchers, teachers and policy advisors. By now 20 PhD's have graduated from the doctoral program in Gothenburg, and 17 of these are currently working in developing countries. In addition 7 post docs have been recruited to EfD centers from outside the program.

Research

Applied, policy relevant research is a core activity for the EfD initiative. Research is a critical input in a long-term strategy to reduce environmental degradation, eradicate poverty and to ensure sustainable use of natural resources. A major challenge in developing countries is, however, the lack of comprehensive research on environmental resource management and poverty alleviation which can inform national strategic plans and policies. Policymakers, farmers, donors, and others need research based information not only to design policies but also to evaluate their efficiency in reaching their objectives.

At the beginning of 2010, about SEK 2 million

was allocated to the EfD research fund. This fund supported at least 13 research projects of various sizes across the six centers. Some centers used this funding as seed money to crowd-in other funding. By the end of the year, about 29 research projects had been executed across the six centers. Research projects in 2010 focused on all the six EfD major themes: agriculture, climate change, fisheries, forestry, parks and wildlife, and policy design. However, the bulk of projects dealt with climate change and policy design.

EfD-Central America's four research projects which were fully funded by the EfD focused on climate change, fisheries, parks and wildlife, and policy design. EfD-China had eight research projects of which only one was fully funded by the EfD. EfD-China has successfully managed to crowd-in research funding from other sources. The center has demonstrated how beneficiaries from EfD research, especially government departments (notably the Chinese Ministry of Science and Technology, the Chinese Ministry of Environmental Protection and the Beijing Municipal Government), can be roped-in to share in the costs of producing policy-relevant research. The focus of the 2010 research projects in China has been on climate change and policy design, which represents a significant shift from the center's traditional focus on forestry. This demonstrates the center's capacity to respond to new research needs. The center in Ethiopia has largely continued with its focus on agriculture, an area of great need in that country. The center had four projects in 2010, two of which also addressed climate change, forestry and policy design aspects of agriculture. EfD-Ethiopia is one of the centers which still heavily relies on full EfD funding. EfD-Kenya had three research projects in 2010 which focused on forestry, climate change and policy design. These projects received full EfD funding. One of the Kenyan projects demonstrates a serious attempt by the EfD to promote research on forestry and REDD issues. Forestry and REDD will continue to be a major focus of EfD research in the future. The EfD center in Tanzania teamed up with the Tanzanian Forest Research Institute and the Ruvo

Fuelwood Project on two research projects co-funded by the EfD in fisheries and forestry. There is more work going on in Tanzania which seeks to directly address poverty issues in that country. EfD-South Africa had seven research projects in 2010. These fell into the following themes: climate change, parks and wildlife, and policy design. Three of the projects were co-funded by the Vice Chancellor of the University of Cape Town as part of the newly established African Climate Development Initiative at that university. The case at EfD-South Africa demonstrates how synergies between EfD research and universities' priorities can be exploited to secure additional financial support from host universities.

In terms of research output, 2010 was a successful year in terms of EfD discussion papers, peer reviewed articles and other outputs. There were 36 peer-reviewed articles, 27 discussion papers and 12 books and book chapters.. The figures for these categories represent an overall growth of 4 percent from the 2009 levels but the really remarkable fact is that the number of peer reviewed articles have increased to such an extent, from 14 in 2009 to 36 in 2010. The peer-reviewed articles mainly focused on agriculture (6), forestry (7) and policy design (15) even though there were outputs on each of the EfD themes. Notable in 2010 is that four of the centers also produced and disseminated policy briefs and other reports.

Historically, EfD-Central America and EfD-Ethiopia have been at the forefront in terms of the cumulative number of peer-reviewed publications. It is pleasing to note that EfD-China and EfD-South Africa have drastically increased the number of their peer-reviewed publications in 2010. These two centers jointly produced over two-thirds of peer-reviewed articles in the network. However, the momentum for producing peer-reviewed articles still exists in EfD-Central America and EfD-Ethiopia. This can be seen from the large stock of EfD Discussion papers produced in 2010. It is expected that the outcomes will be better in the future when EfD-Kenya and EfD-Tanzania improve their peer-review output levels. Publications can be found at efdinitiative.org/research/publications.

EFD CENTERS

There are six Efd centers, hosted by universities or academic institutions in each respective country. For more information on each center, please contact the coordinators:

CENTRAL AMERICA

Environment for Development Program for Central America
Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)
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CHINA

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ETHIOPIA

Environmental Economics Policy Forum for Ethiopia
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KENYA

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EFD PARTNERS



UNIVERSITY OF GOTHENBURG
SCHOOL OF BUSINESS, ECONOMICS AND LAW

EEU, Environmental Economics Unit

EEU at Göteborg University, Sweden, has initiated the Efd initiative and acts as coordinator and secretariat. For more information please contact:

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RFF, Resources for the Future

RFF in Washington DC, US, is an important partner of the Efd initiative. RFF's research fellows will work closely with their counterparts and RFF's communications staff will help to disseminate the new centers' research products. For more information please contact:

Senior Fellow Allen Blackman

Resources for the Future
Email: blackman@rff.org
Phone: +202 328 5073

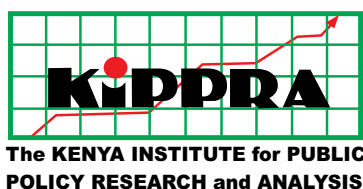


Sida

Swedish International Development Cooperation Agency, provides the funding for the Efd initiative.



Local market outside Thika town, near Muranga district, sales of smallscale farmers' crop produced to earn cash incomes.



More information & Contact us

Once you've read this report you might want to know more about our work and the EfD initiative.

For more information please visit www.efdinitiative.org/centers/kenya

You are most welcome to contact us:

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