

EfD

Environment for Development



PHOTO BY GUY STUBBS

EFD INITIATIVE CENTER REPORT

SOUTH AFRICA

2011/12

The Environmental Economics Policy Research Unit (EPRU) is a collaborative association of academic researchers specializing in environmental and natural resource issues. EPRU works to promote sustainable development and poverty reduction in Southern Africa.

THIS REPORT

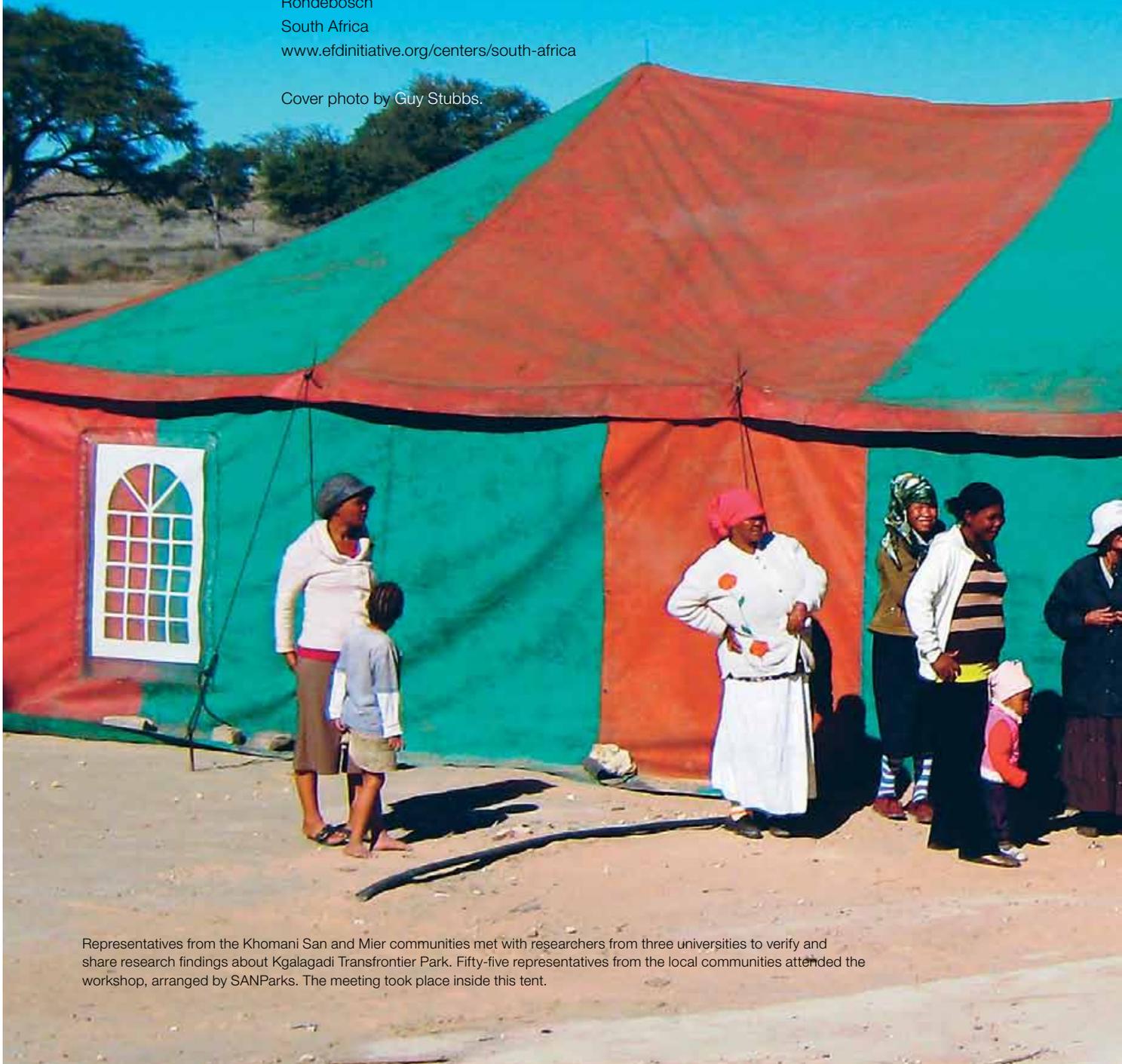
This report presents EfD South Africa, its members and work during 2011/12.

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Cover photo by Guy Stubbs.



Representatives from the Khomani San and Mier communities met with researchers from three universities to verify and share research findings about Kgalagadi Transfrontier Park. Fifty-five representatives from the local communities attended the workshop, arranged by SANParks. The meeting took place inside this tent.

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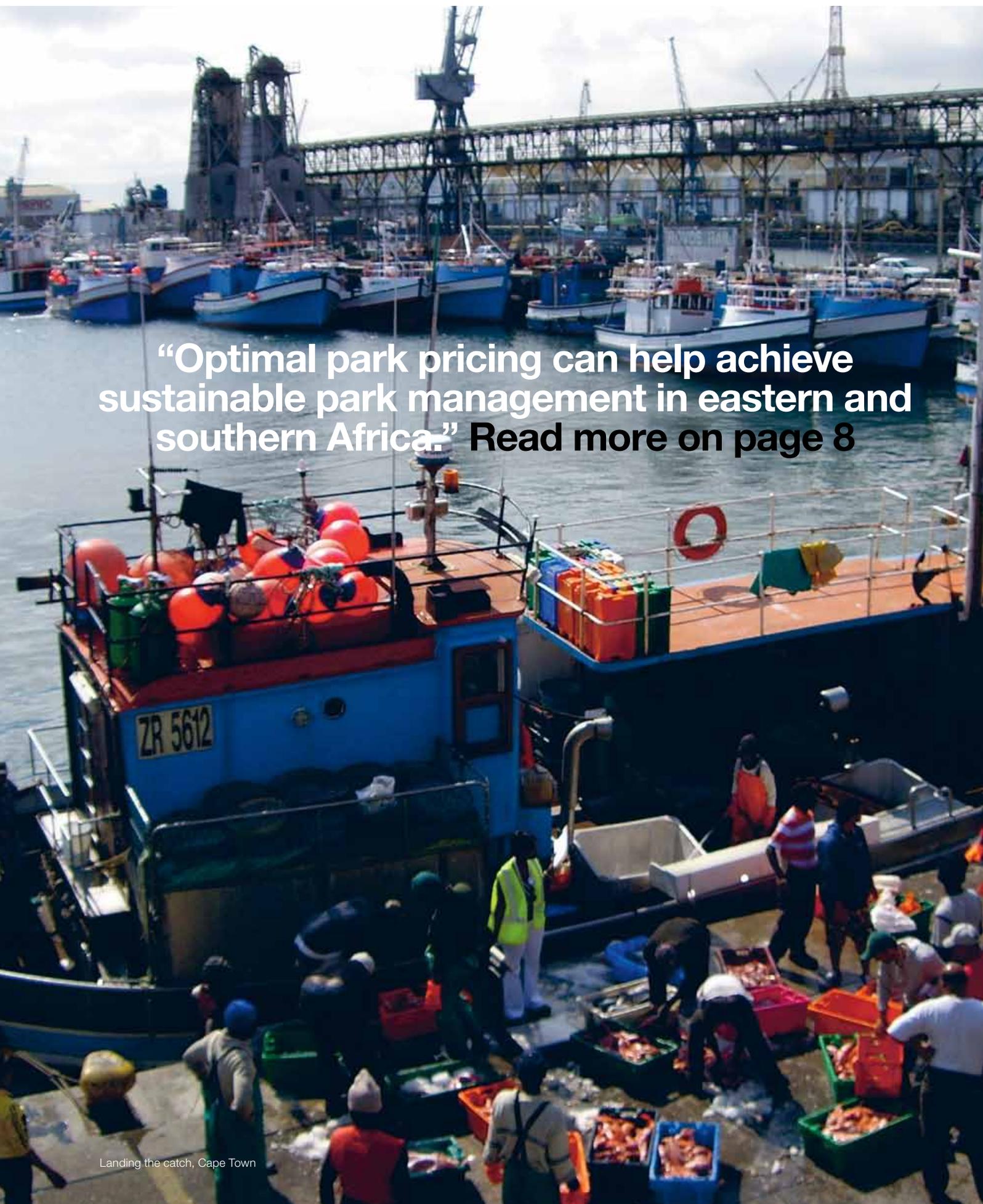
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“Optimal park pricing can help achieve sustainable park management in eastern and southern Africa.” Read more on page 8

Landing the catch, Cape Town



Mare Sarr, Director

MESSAGE FROM OUR CENTER DIRECTOR

Over the past four years, EPRU has strived to produce policy-relevant research in areas that are of great importance for South Africa: community-based wildlife conservation and poverty mitigation, climate change, marine protected areas and coastal management, sustainable and responsible investment. The organization of the Workshop on Park Pricing, the participation to Durban Summit on Climate Change, the close collaboration with the Water Research Commission and the City of Cape in its strategy towards green growth are a few illustrations of our commitment.

In 2011, EPRU has introduced a new governance structure by sharing the coordination responsibilities between a director in charge of the relations with the major donor and UCT administration, and a research convener in charge of research and policy dissemination. EPRU has also introduced the organization of quarterly meeting taking place off campus to

discuss current issues, and research ideas and results including policy interaction issues. This new organization has been an important way to strengthen the group and improve research.

Under the leadership of the Research Convener, EPRU has also strived to develop and improve its policy interaction strategy. It is also working hard towards diversifying its sources of funding. The grant recently awarded by the Fiscal and Financial Commission to undertake research on the impacts of climate change and costs associated with mitigation and adaptation on agriculture and for rural municipalities, is a testimony that this hard work is now bearing fruits.

EPRU is strengthening year after year its research by turning important policy-relevant research into high quality academic papers. In the course of the year, EPRU fellows have published 11 articles in leading international

and local peer reviewed journals, 4 discussion papers and 1 book chapter. Two of our leading Senior Research Fellows together with their PhD students have been particularly productive this year and deserve to be commended and emulated. It is also a pleasure for me to congratulate five of our Junior Research Fellows who managed to secure a prestigious two-year Scholarship funded by the Carnegie Foundation. In January 2012 we welcomed Anthony Black as a new Senior Research Fellow.

Finally, on behalf of all EPRU members, I would like to thank Sida for its continued support. My thanks extend to the coordination team of the EfD initiative for helping us build what we hope will soon become a Centre of Excellence in the area of natural resource management in Southern Africa.

Mare Sarr
Director



The EfD Policy Day 2011 in Arusha, Tanzania, brought together more than 80 researchers and policy makers in a dialogue on Opportunities for sustainable natural resource use with national and local benefits.

THE EFD ANNUAL MEETING 2011 IN TANZANIA

The EfD Annual Meeting 2011 was held in Arusha, Tanzania (October 27-30). The annual meeting is a forum to bring together researchers from EfD centers and their collaborators and other key stakeholders for exchange of research ideas and discussion of research proposals and results from EfD research projects. About 50 participants attend the meetings each year.

Discussions on Research

One of the key note speakers in 2011 was Peter Martinsson, Professor of environmental and behavioural economics, Department of Economics University of Gothenburg. Martinsson spoke on the potential of field experiments in undertaking effective research at EfD. The other key note speaker was Pushpam Kumar, Chief, Ecosystem Services Economics Unit, United Nations Environment Programme (UNEP), who spoke on Economics of Ecosystem Services and the need for effective transdisciplinarity in research.

In line with its objective of promoting high quality relevant research, the EfD used the 2011 workshop as an opportunity to launch the new "Collaborative Research Process", which involves a multiple of EfD centers. EfD researchers developed collaborative research projects

focusing on various highly relevant research proposals that were consequently evaluated. Decisions on funding have been made by the research committee at the EfD secretariat.

The 2011 annual meeting also served as an important venue through which the views and comments on the future of EfD have been entertained from all the workshop participants. The session was chaired by Francisco Alpizar, Director of EfD Central America, and useful insights were obtained from the floor which helped enormously in the development of the EfD strategic plan for sustainability.

EfD Policy Day at the Annual Meeting

The EfD Policy Day 2011, in Arusha, Tanzania (October 27), brought together more than 80 researchers and policy makers in a dialogue on Opportunities for sustainable natural resource

use with national and local benefits. More than 20 representatives from Ministries, Departments and Agencies participated. About one third of them, were members of the EfD Tanzania Research Policy Board (see table).

"Our objectives of the Policy Day is to communicate selected work of EfD's research and its potential contributions to key policy institutions and other key stakeholders present at the meeting. We also want to increase our learning on how to translate research to policy and make a difference with environmental economics tools, and share information across EfD centers on successful research-policy interactions," says EfD Director Gunnar Köhlin.

In Arusha 2011 the news media was invited for the first time. Two press releases on EfD research findings were issued, titled: Benefit



EfD members Razack Lokina, Selma Oliveira, Kofi Vondolia, and Edwin Muchapondwa.



Ruzika N. Muheto, Director, National Environment Management Council, Tanzania, Razack Lokina, EfD Tanzania Director, Wilfred Nyangena, EfD Kenya Director, and Amon Manyama, Chairman, EfD Tanzania Policy Board.



Felix Mwakyembe, Journalist at the Kiswahili weekly Raia Mwema, interviewing Elizabeth Robinson, Associate Professor, University of Gothenburg and University of Reading.



Professors Randall Bluffstone, Portland State University, and Jintao Xu, Director EfD China/EEPC

Kofi Vondolia, UNEP, Nairobi and EfD Kenya Research Associate.



Professor Thomas Sterner, Dr Ping Qin, Policy analyst Olof Drakenberg, and Dr Yonas Alem at the EfD Coordination Committee meeting in Arusha 2012.

sharing is key for the success of REDD in Tanzania and Wildlife conservation can help poor communities survive. Journalists came, and reports were published in Kiswahili weekly, Raia Mwema, The Guardian, The Daily News, The Citizen, and broad-casted in the tv-channels ITV and Channel Ten. EfD media coverage can be found under the heading EfD in media on www.efdinitiative.org

Julius Ningu, Director, Environment Division, Vice-President's Office, opened the meeting by discussing about greening the economy through better management of wildlife and forestry. Claude Mung'ongo, Professor at the University of Dar es Salaam's Institute of Resource Assessment, spoke about implementation of Tanzania's REDD+ strategy and key challenges. Elizabeth Robinson, Associate Professor, University of Gothenburg and University of Reading, spoke about experiences of successful forest management in Sub-Saharan Africa and its implications for REDD+ policies and the private sector. Allan Kijazi, Director Tanzania National Parks (TANAPA), spoke about sustainable management of Tanzania's wildlife resources and its contribution to development.

The importance of giving landholders strong



Blandina Cheche, Vice-President's Office, Claude Mung'ongo, Professor at the University of Dar es Salaam's, Arnold Mapinduzi, The National Environment Management Council (NEMC), and Salvatory Macha, EfD Project Administrator.

use rights and encouraging the commercialization of wildlife, including trade and developing of new wildlife products was discussed by Edwin Muchwapondwa, Associate Professor at the University of Cape Town and in charge of coordinating EfD research in 2011. This was followed by a presentation by Randy Bluffstone, EfD research associate, EfD Ethiopia, on the determinants of agricultural investment and productivity over the long term-implications for East African policy makers. The policy day ended with a closing speech by Amon Manyama, Chairman, EfD Tanzania policy board and head of poverty unit, UNDP Tanzania.

The final panel discussion on Key actions to attain sustainable natural resource use with benefits for local communities – Tanzania and other examples included also (in addition to some speakers mentioned above) Blandina Cheche, Poverty Environment Coordinator, Vice-President's Office, Olof Drakenberg, Policy Analyst and Chairman, EfD Policy Day Committee, Ruzika Mheto, Director, Environmental Planning and Research, National Environment Management Council (NEMC), Aloyce Nzuki, Director, Tourism Division, Ministry of Natural Resources, and Professor Jintao Xu, EfD Research Fellow and Director, EfD China.

During the Policy Day, members of the policy board also took the opportunity to challenge EfD researchers. Several news media reported from the day (see EfD in media on efdinitiative.org) and for example The Guardian reported (October 29, 2011) under the heading Researchers challenged to reach out to ordinary people:

Blandina Cheche, Poverty Environment Coordinator, Vice-President's Office, said research findings could influence positive changes in policy directions and society in general. "But researchers must ensure they bridge the gap between themselves and ordinary people in society and that their research findings reach them in a simple language," said Cheche. She also asked researchers in the country to ensure the research conducted and recommendations are used to address burning issues on the ground: "By doing so, we will be helping people out of the poverty gap." According to The Guardian the board member, Ruzika Mheto, Director, Environmental Planning and Research, National Environment Management Council (NEMC) "concurred with the idea, urging researchers to translate their research into Kiswahili: "Research acts as a stimulus to development in a particular locality but its research findings should reach the grass roots."



Byela Tibisegwa, Junior research fellow, EfD South Africa/EPRU



Johane Dikgang, Junior research fellow, EfD South Africa/EPRU

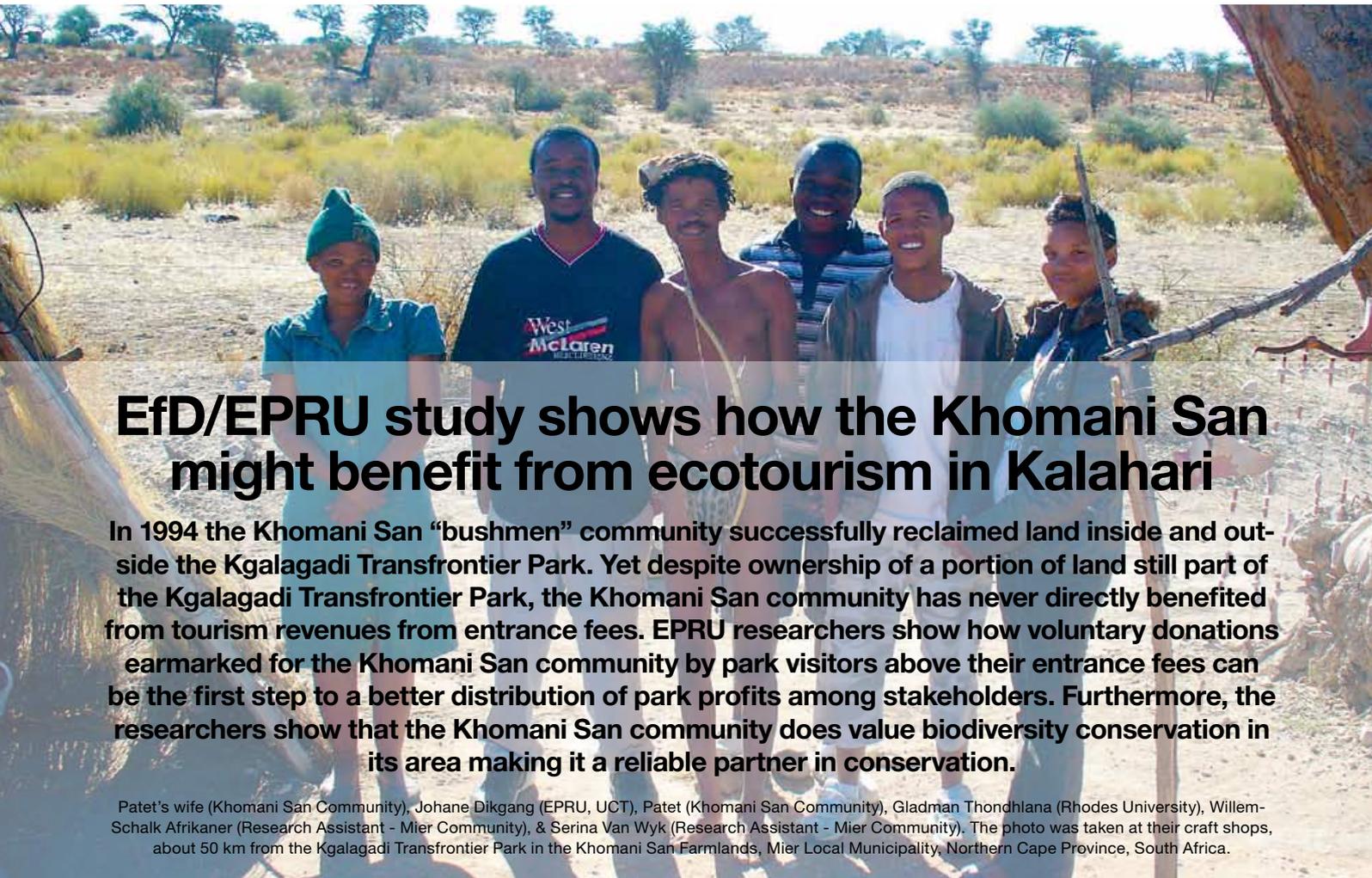
RESEARCH POLICY INTERACTION

The EfD initiative is built on the premise that if relevant applied research is introduced in policy making processes, then this will result in improved policies and subsequently poverty reduction and a more sustainable development. EPRU research fellows have extensive links with policy makers and practitioners in South Africa and have worked with various government units. EPRU works with a number of local and national policy stakeholders on medium-size projects, such as The South African National Parks in the wildlife sector, The Department of Water Affairs and Forestry in the water sector, The Department of Environmental Affairs and Tourism on marine and coastal management, and the City of Cape Town on air quality management and energy savings.

For example, Associate Professor Martine Visser, EPRU Research fellow and Grant Smith, master student have been involved in an ongoing project involving the role of social norms in lowering household electricity consumption. The study has been done in close collaboration with different departments within the Municipality of Cape Town. The results thus far have shown that providing such information to a treatment sample influenced their electricity consumption significantly. The Cape Town Municipality has been very enthusiastic about these results and

requested that the study be extended to pre-paid electricity meters as well. Martine Visser and Grant Smith have also obtained funding from the Water Research Commission to extend the study to water consumption within Cape Town. They are currently in conversation with relevant departments within the Municipality to initialize this second project

On another front, Dr Jane Turpie is currently assisting the Department of Agriculture, Forestry and Fisheries (DAFF) to prepare their Integrated



EfD/EPRU study shows how the Khomani San might benefit from ecotourism in Kalahari

In 1994 the Khomani San “bushmen” community successfully reclaimed land inside and outside the Kgalagadi Transfrontier Park. Yet despite ownership of a portion of land still part of the Kgalagadi Transfrontier Park, the Khomani San community has never directly benefited from tourism revenues from entrance fees. EPRU researchers show how voluntary donations earmarked for the Khomani San community by park visitors above their entrance fees can be the first step to a better distribution of park profits among stakeholders. Furthermore, the researchers show that the Khomani San community does value biodiversity conservation in its area making it a reliable partner in conservation.

Patet's wife (Khomani San Community), Johane Dikgang (EPRU, UCT), Patet (Khomani San Community), Gladman Thondhlana (Rhodes University), Willem-Schalk Afrikaner (Research Assistant - Mier Community), & Serina Van Wyk (Research Assistant - Mier Community). The photo was taken at their craft shops, about 50 km from the Kgalagadi Transfrontier Park in the Khomani San Farmlands, Mier Local Municipality, Northern Cape Province, South Africa.

Growth and Development Plan for 2012-2015. The plan will be published in 2012. Jane Turpie also attended the resource economics 'think tank' meetings of the SANBI (South African National Biodiversity Institute) and is currently advising researchers in Pakistan on carrying out an assessment of the socio-economic impacts of the development of an HEP scheme.

In 2011, EPRU has been also involved in general exchange with policy makers and practitioners around Biodiversity, Water Conservation, Sustainable and Responsible Investment and Climate Change through research presentations in workshops and forums where policy makers were invited.

REPORTING AVERAGE ELECTRICITY CONSUMPTION MAKES HOUSEHOLDS CONSUME LESS

Reporting to people about their own and the average consumption of electricity caused all kinds of households in suburbs of Cape Town to significantly reduce their electricity consumption. This is the conclusion

of initial research results from Efd South Africa. Households in the middle income suburbs were the most responsive, followed by lower income suburbs. The upper income suburbs responded the least.

In 2010, Martine Visser and Grant Smith conducted a study on Electricity Norms and Demand Side Management for the City of Cape Town. The study showed that reporting to people their own and the average consumption of electricity caused all kinds of households in suburbs of Cape Town to significantly reduce their electricity consumption.

Given the success of the study, the City requested our researchers to extend the scope of the project. Subsequently Martine Visser and Grant Smith have also obtained funding from the Water Research Commission to do a similar study on Demand Side Management and water consumption in Cape Town. A workshop was organized to present the project to a panel of experts who made invaluable comments on the methodology and general issues we need to think through before embarking on this project. Present at the workshop were two representatives from the City of Cape Town, two representatives from WRC, a representative from a local water consultancy, one from an NGO and three academics with

IN 1913 THE KHOMANI SAN were forcefully removed from their land to make way for a national park in the Kalahari, or Kgalagadi, desert in Southern Africa. Today the Kgalagadi Transfrontier Park stretches between Botswana and South Africa but also borders Namibia, with access from all three countries and 25 percent of its area in South Africa. It is located 904 km from Johannesburg and 1,080 km from Cape Town, with the closest airport in Upington 260 km from the park.

After the first democratic elections in 1994, the South African government initiated a land reform program provided for by the Restitution of Land Rights Act 22 of 1994.

"This meant a significant change in land ownership in the Kalahari area, with implications for conservation and sustainability issues," says Johane Dikgang, Efd South Africa/EPRU Junior Research Fellow, who is working on his PhD thesis titled *Developing a system for sustainable resource use by the Khomani San in Kgalagadi Transfrontier Park and environment: Valuing sustainable resource use*.

The Kgalagadi Transfrontier Park is co-managed by the SANParks, the Khomani San community and the adjacent Mier community. The latter was also given land within the park in May 2002. In addition to land, the vulnerable Khomani San community was awarded the right to sustainable harvesting for cultural, traditional and symbolic purposes, both inside and outside the park.

"The SANParks agency has for sometime been contemplating giving the Khomani San community access to the broader park to exercise their cultural, traditional and symbolic uses in accordance with the land claim agreement but has been concerned about whether such access could result in the overutilization of natural resources within the park. They therefore published a call for interest in research in the Kalahari area to help them decide on the way forward, and this is how we got involved in 2009," says Johane Dikgang, who is supervised by Dr. Edwin Muchapondwa, Efd Senior Research Fellow and Associate Professor at the University of Cape Town. Muchapondwa has extensive experience in environmental economics research on national parks in Southern Africa.



Johane Dikgang (EPRU, UCT), Patet (Khomani San) about 50 km from the Kgalagadi Transfrontier Park in the Khomani San Farmlands, Mier Local Municipality, Northern Cape Province, South Africa.

In addition to the University of Cape Town, the University of Stellenbosch and Rhodes University are also involved in research projects in the area. In 2009 representatives from the Khomani San and Mier communities met with researchers to develop research projects to explore and document resource use and its implications. In 2011 they met again to verify and share the findings of the research. Fifty-five representatives from the



Khomani San and Mier communities attended the workshop, together with researchers from the three universities. SANParks arranged both meetings.

“We were concerned about how to deliver the message. We tried to focus on the implications of the results, not technical details. We drew charts and presented our findings on posters. The Khomani San and Mier representatives were really involved and interactive and could confirm our results,” says Johane Dikgang.

One of his and Muchapondwa’s two studies is about estimating optimal conservation fees in the park. The idea is to ensure that the Khomani San community benefits from the tourism revenues from conservation fees since they are in joint ownership of the park.

“The first thing to investigate is whether the en-

trance fee, the conservation fee, to the park is optimal. If the optimal entrance fee is more than what is currently charged, it perhaps suggests that there is room to extract more consumer surplus from visitors and channel it to the Khomani San community,” says Johane Dikgang.

Of course, optimal pricing strategies that aim to maximize revenue for particular parks should take into consideration factors such as the presence of competing recreational sites, environmental concerns, spill-overs to local communities, quality of the visitor’s experience and the potential impact on the nature-based tourism industry as a whole.

Dikgang found that revenue could be maximized by increasing conservation fees for local tourists, who tend to be mainly high income earners from major cities in the country. On the other hand, the findings also show that the



Field trip to Kgalagadi Transfrontier Park

conservation fees charged to international visitors are already optimal.

“It is important for parks co-managed with local communities as a result of the land restitution program to play an active role in contributing positively towards the local economies. Still, the issue is highly debated in many African countries,” says Dikgang.

expertise in the area and a civil society representative. The WRC requires such a workshop be conducted every 6 months.

THE CITY OF CAPE TOWN ENERGY FUTURES SCENARIOS

The City of Cape Town also approached EPRU to engage in a policy think tank to discuss their Energy Futures Scenarios which is part of a three year extensive project to assess the potential of the City to respond to both mitigation and adaptation with respect to Climate Change.

PARK PRICING WORKSHOP IN ZIMBABWE COMPLETED

Optimal park pricing can help achieve sustainable park management in eastern and southern Africa. The Efd center in South Africa, EPRU, co-hosted the second park pricing workshop in Victoria Falls, Zimbabwe, from 28 to 29 April 2011, together with Department of Economics at the

University of Zimbabwe. It focused on an increasingly important sector with major values at stake due to irreversibility of some types of biodiversity loss.

The background to this series of workshops is that national parks in eastern and southern Africa are under threat from insufficient funds to manage them, and the pressure to exploit them in alternative land-uses which easily demonstrate their worth. Furthermore, parks services increasingly being asked to rely on own revenues. The major goal of the workshop series is to use optimal park pricing to achieve sustainable park management and to maximize the value of parks for a combination of parks and national interests. The workshop convener, Associate Professor Edwin Muchapondwa and EPRU Research Fellow was ac-

companied by Efd Research Fellows from Kenya and South Africa, along with a number of academics from Copperbelt University, University of Gothenburg, Makerere University, University of Cape Town, University of Namibia, University of Pretoria, University of Washington and University of Zimbabwe.

EFD SIDE-EVENT TO THE UN CLIMATE CHANGE CONFERENCE IN DURBAN

Efd had a noticeable presence at the UN Climate Change negotiations held in Durban in December 2011. Efd hosted an official side-event at the Durban Exhibition Centre entitled "Leading by example – Swedish leadership in global climate change policy". The side-event was co-organized with FORES, a leading independent Swedish liberal economic think-tank. Drawing attention to Swedish leadership on both domestic and international stages, the session was comprised of two parts: (i) Sweden, Climate Change Negotiations and Fairness and (ii) Engaging Developing Countries. Given the reputations of panelists including Lena Ek, Swedish Minister of Environment, and Efd's Thomas Sterner, Professor of Environmental Economics at the University of Gothenburg, the side-event drew in a strong attendance, between 20-30 individuals, who were interested in learning more about Swedish efforts.

Efd's Dr. Martine Visser, Associate Professor at the University of Cape Town, opened the first session where she presented her research on issues of fairness in the climate change negotiations. Using applied game theory, she demonstrated that individual country specific contributions are more effective than basing contributions on equity principles alone. This lends credence to a bottom-up approach where emissions targets are based on national policies as opposed to a top-down approach such as the Kyoto Protocol. Mark Purdon, PhD candidate at the University of Toronto and Efd Research Associate, reported in the second session on results from comparative fieldwork into carbon development mechanism

"Our findings suggest that a review of the pricing strategy in national parks is necessary. Furthermore, there should be encouragement of the park agency to gradually share some of the revenue generated through conservation fees with the local communities. There are two ways in which this might be started. One way is to revise conservation fees to an optimal level and share the increased revenues with the local communities. Another way is to facilitate a voluntary community-bound donation by park visitors in addition to the current conservation fee." says Dikgang.

Will sharing revenues with the Khomani San community bring about improved conservation? This seems highly likely because another of the duo's studies is on the valuation of biodiversity conservation by the Khomani San community. The findings show that the Khomani San community, which is relatively new

to modern conservation and whose attitudes towards modern conservation have not been evaluated until now, generally attaches a significant economic value to biodiversity in their area. So does the adjacent Mier community, which was studied as comparison. Despite high unemployment and low household incomes, most people in the area are willing to pay to support sound conservation initiatives. However, in order for all members of the communities to support biodiversity conservation unconditionally, mechanisms for fair distribution of the associated costs and benefits should be put in place.



Edwin Muchapondwa (EPRU/UCT), Johane Dikgang (EPRU, UCT), and Gladman Thondhlana (Rhodes University), together with members of the Khomani San Community. The photo was taken at their craft shops, about 50 km from the Kgalagadi Transfrontier Park in the Khomani San Farmlands, Mier Local Municipality, Northern Cape Province, South Africa.



Among the panelists at the EfD side-event to the UN Climate Change conference in Durban 2011 were (second from left:) Lena Ek, Swedish Minister of Environment, and (third and fourth from left:) EfD's Dr. Martine Visser, Associate Professor at the University of Cape Town, and Mark Purdon, PhD candidate at the University of Toronto. EfD's Thomas Sterner, Professor of Environmental Economics at the University of Gothenburg, gave his presentation from Sweden using technology available – thus saving significant amounts of CO₂.

afforestation projects in Tanzania, Uganda and Moldova, he argued that projects tend to generate a greater number of genuine, “additional” carbon credits when they were implemented by state forest agencies who were able to maintain latent technical capacity despite uncertainty about the price of carbon that bedeviled private sector operators.

The second session of the EfD side-event to the UN Climate Change conference in Durban on Engaging Developing Countries was opened by Professor Thomas Sterner. He highlighted the EfD experience, especially the increasing emphasis EfD is placing on climate change – as exemplified in a new PhD Program in Climate Economics starting in Gothenburg in 2012. Sterner also presented the findings of the book *Fuel Taxes and the Poor, The Distributional Effects of Gasoline Taxation and Their Implications for Climate Policy*, edited by Sterner and published by RFF Press in 2011. The book is written as part of the Environment for Development Initiative. It is authored by 35 renowned researchers from China, India, Indonesia, USA, Latin America, as well as many countries in Africa and Europe. News media has shown great interest in the book and the critique of fuel subsidies, not least the news media in South Africa, Indonesia, and Sweden, but also magazines like the UN magazine *Africa Renewal*. EfD media coverage can be found on www.efdinitiative.org/news-press/efd-in-media.

IN SERVICE TRAINING

EPRU research fellows are involved in the teaching of environmental and resource economics courses in the School of Economics at the University of Cape Town.

EPRU also has the capacity to run short training programs for policy makers and civil servants. Such courses inform decision makers of the relevant environmental economic tools available to improve policy making and analysis. Thus Martine Visser taught on a course (Economics of Climate Change) hosted by UNU-WIDER aimed at practitioners and policy makers from all over Africa. The course materials will henceforth also be available online for future courses that WIDER will run, which will be aimed at an ever broader audience (outside of Africa).

POLICY LINKS

The following are the institutions where EPRU is having its greatest impact, and the links to these institutions' websites are provided on the EPRU website pages.

- South African National Biodiversity Institute (SANBI)
- Department of Environmental Affairs
- Department of Water Affairs
- South African National Parks
- Cape Town Municipality

POLICY SEMINARS

Debate on the Cape Town Optimum Energy Future

The Optimum Energy Future was presented for debate with a group of invited participants to invite critical and constructive comments and inputs, to firmly locate the Optimum Energy Future (OEF) in the local, national and international economic contexts, and to generally improve the robustness and usefulness of the OEF as a key foundation for the City of Cape Town Energy and Climate Action Plan (ECAP).

POLICY WORKSHOPS

Park Pricing Workshop (Zimbabwe, April 2011)

A Workshop on Methodologies for Pricing National Park Products was held April 27-29 in Victoria Falls, Zimbabwe. The workshop was a continuation of the National Park Pricing Policy Workshop held in Kenya in November 2010. The workshop was co-organized by the Environmental-Economics Policy Research Unit (EPRU) at the University of Cape Town and the Department of Economics at the University of Zimbabwe with funding from the Environment for Development (EfD) Initiative coordinated by University of Gothenburg, Sweden. The workshop was attended by representatives of Departments of National Parks of Botswana, Ethiopia, Kenya, Uganda, Namibia, South Africa, Tanzania, Zambia and Zimbabwe as well as academics from those countries.

Workshop on the project Electricity Norms and Demand Side Management

This workshop was organised by Martine Visser and Grant Smith. It aimed at presenting the project Electricity Norms and Demand Side Management to a panel of experts who made invaluable comments on the methodology and general issues we need to think through before embarking on this project. Present at the workshop were two representatives from the City of Cape Town, two representatives from WRC, a representative from a local water consultancy, one from an NGO and three academics with expertise in the area and a civil society representative.



Field trip to Kgalagadi Transfrontier Park. EfD fellow, Edwin Muchapondwa, on the far right, is one of the authors of the article "Kgalagadi transfrontier park and its land claimants: a pre- and post-land claim conservation and development history" published by the Environmental Research Letters in 2011.

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.

To highlight at least one of the 11 peer reviewed journal articles by EfD members in 2011, we choose to present the one published by the Environmental Research Letters, a journal with an impact factor of 3.049 (frequently cited by other journals), Thondhlana, G., Shackleton, S. and E. Muchapondwa, 2011, "Kgalagadi transfrontier park and its land claimants: a pre- and post-land claim conservation and development history", Environmental Research Letters 6(2) April-June:

Conservation and development challenges of Kgalagadi Transfrontier Park

Kgalagadi Transfrontier Park is located in the Northern Cape Province of South Africa and

neighbouring Botswana. The local communities on the South African side, the Khomani San (Bushmen) and Mier living adjacent to the park have land rights inside and outside the park. The path from a history of land dispossession to being land owners has created conservation challenges manifested through heightened inter- and intra-community conflicts.

The contestations for land and tourism development opportunities in and outside the park have drawn in powerful institutions such as the governments, South African National Parks, private safari companies, local interest groups and NGOs against relatively powerless local communities. This has consequently attracted

national and international interest since it may result in further marginalization of the communities who lack the power to negotiate resource access. Moreover, the social and political system of the San is romanticized while little is reported about the Mier, who are an integral part of the park management system.

To make these issues more accessible to a growing audience of interested parties and to better understand present conservation and development challenges and opportunities, this article synthesizes information on the pre- and post-land restitution history of the park and the adjacent communities.

RESEARCH 2011: PUBLICATIONS

PEER REVIEWED

Biggs, Duan, Jane Turpie, Christo Fabricius and Anna Spenceley, 2011, "The value of avitourism for conservation and job creation—an analysis from South Africa", *Conservation and Society*, 9, 80-90.

Brick, Kerri and Martine Visser, 2011, "Green Certificate Trading", *Journal of Energy Southern Africa*, 22(1): 42 – 54.

Fischer, Carolyn, Edwin Muchapondwa and Thomas Sterner, 2011, "A Bio-economic model of community incentives for wildlife management under CAMPFIRE". *Environmental and Resource Economics*, 48 (2), 303-319.

Giamporcaro, Stéphanie, 2011, "Sustainable and responsible investment in emerging markets: integrating environmental risks in the South African investment industry", *Journal of Sustainable Finance and Investment*, 1 (2), 121-137.

Hamann, Ralph, Stéphanie Giamporcaro, David Johnston and Schirin Yachkaschi, 2011, "The role of business and cross-sector collaboration in addressing the 'wicked problem' of food insecurity", *Development Southern Africa*, 28 (4), 579-594.

Hasson, Reviva, Asa Lofgren and Martine Visser, 2010, "Climate change in a public goods game: investment decision in mitigation versus adaptation", *Ecological Economics*, 70(2), 331-338.

Leiman, Anthony and Alexander Behar, 2011, "A green revolution betrayed? Seed technology and smallscale maize farmers in Zimbabwe", *Development Southern Africa*, 28 (4), 445-460.

Muchapondwa, Edwin and Obert Pimhidzai, 2011, "Modelling international tourism demand for Zimbabwe" *International Journal of Business and Social Science*, 2 (2), 71-81.

Sarr, Mare, Erwin Bulte, Chris Meissner and Tim Swanson, 2011, "On the Looting of Nations", *Public Choice*, 148, 353–380.

Thondhlana, Gladman, Sheona Shackleton and Edwin Muchapondwa, 2011, "Kgalagadi transfrontier park and its land claimants: a pre- and post-land claim conservation and development history", *Environmental Research Letters* 6 (2), 1-12.

Whelan, Brendan and Edwin Muchapondwa, 2011, "Enhancing consumers' voluntary use of small-scale wind turbines to generate own electricity in South Africa". *Journal of Energy in Southern Africa*, 22(2), 13-21.

EFD DISCUSSION PAPERS

Adewara, Sunday Olabisi and Martine Visser, 2011, "Use of Anthropometric Measures to Analyze How Sources of Water and Sanitation Affect Children's Health in Nigeria", *Environment for Development Discussion Paper Series*, Efd DP 11-02.

Kassie, Menale, Precious Zikhali, John Pender, and Gunnar Köhlin, 2011, "Sustainable Agricultural Practices and Agricultural Productivity in Ethiopia: Does Agroecology Matter?", *Environment for Development Discussion Paper Series*, 2011, Efd DP 11-05.

Giamporcaro, Stephanie, 2011, "A Market for Environmentally Responsible Investment? Identifying Obstacles and Enablers of Commodification of Environmental Risks in the South African Investment Industry", *Environment for Development Discussion Paper Series*, 2011, Efd DP 11-01.

ment for Development Discussion Paper Series, 2011, Efd DP 11-01.

OTHER DISCUSSION PAPERS

Dikgang Johane and Muchapondwa Edwin, (2011), The valuation of biodiversity conservation by the South African Khomani San "bushmen" community, Working paper 257.

EFD/RFF BOOKS

Sterner, Thomas, Jessica Coria, "Policy Instruments for Environmental and Natural Resource Management", (2011), Routledge, Published by RFF Press.

Sterner, Thomas, Editor, "Fuel Taxes and the Poor, The Distributional Effects of Gasoline Taxation and Their Implications for Climate Policy", (2011), Routledge, Published by RFF Press with Environment for Development initiative.

Bluffstone, Randall A. and Gunnar Köhlin, Editors, "Agricultural Investment and Productivity - Building Sustainability in East Africa", (2011), Routledge, Published by RFF Press.

BOOK CHAPTERS

Mare Sarr, Erwin Bulte, Chris Meissner, and Tim Swanson. 2011. Sovereign Debt and the Resource Curse. in Robert W. Kolb (Ed.) "Sovereign Debt: From Safety to Default", April 2011, Wiley.

POLICY BRIEFS

Turpie, Jane, 2011, "Maximising the value of South Africa's coast", Efd Policy Brief, Environmental-Economics Policy Research Unit, University of Cape Town, South Africa.

REPORTS

Efd South Africa Center Report 2010 80

PROJECTS 2011

Evaluation of Dry-lands Ecosystem Services in the area surrounding the Kgalagadi Transfrontier Park in South Africa

This project is concerned with identifying, assessing and valuing ecosystem services found on the section of land belonging to the Khomani San contractual park and their farms.

Ambiguity Aversion in the Uptake of New Farming Practices: Experimental Evidence from South Africa

This project explores whether the adoption of new farming practices is decreasing in ambiguity aversion, while conversely, the uptake of insurance is increasing in ambiguity aversion. Such a

result will strengthen the argument in favour of mechanisms of risk diffusion, such as insurance products for small-scale farmers.

Estimating Optimal Conservation Fees in the Presence of Land Restitution in the Kgalagadi Transfrontier Park between Botswana and South Africa

This project thrives to determine how the Kgalagadi Transfrontier park can serve as a drive in tourism that generates economic and social benefits to land claimants and as a result maximize the positive spillover effects on the Khomani San people.

Value of protection and management of the South African coast

The objectives of this study are to provide a spatial analysis of the total economic value of the SA coast, focusing on the values generated by different types of protected areas versus other stretches of coast.

PROJECTS 2012

Assessment of dry-lands ecosystem services on Khomani San communal land and the possible implications

Theme: Parks & Wildlife
PI: Edwin Muchapondwa

Spatial economics of marine and coastal management: the South African recreational line fishery

Theme: Fisheries
PI: Jane Turpie

Poverty, resource scarcity, and climate variability: constraints to adaptation

Theme: Climate change
PI: Martine Visser

Risk and Time Preferences among Western Cape Fruit Farmers

Theme: Agriculture; Policy design
PI: Mare Sarr

Ambiguity Aversion in the Uptake of New Farming Practices: Experimental Evidence from South Africa

Theme: Responses to Climate Risk
PI: Martine Visser

Estimating Optimal Conservation Fees in the Presence of Land Restitution in the Kgalagadi Transfrontier Park between Botswana and South Africa

Theme: Parks & Wildlife
PI: Edwin Muchapondwa

Value of protection and management of the South African coast

Theme: Parks and wildlife
PI: Jane Turpie

Evaluation of Dry-lands Ecosystem Services in the area surrounding the Kgalagadi Transfrontier Park in South Africa

Theme: Parks & Wildlife
PI: Edwin Muchapondwa



Jane Turpie, Efd/EPRU Research fellow and Research Convener

RESEARCH PRESENTATIONS

PRESENTATIONS AT ACADEMIC CONFERENCES

South African Marine Science Symposium, Grahamstown April 2011

- Jane Turpie: Value of the Kogelberg coast and implications of changes in management

Society for Conservation Biology – International Marine Conservation Congress, Victoria, Canada May 2011

- Jane Turpie: Conservation of estuaries as the marine-freshwater interface: the importance of an integrated and strategic approach

AERC Biannual Research & CPP Class Of 2009 Thesis Workshop, May 2011, Nairobi – Kenya

- Coretha Komba: Climate Vulnerability, Climate Adaptation And Climate Mitigation In Tanzania

EAERE, Rome June/July 2011

- Jane Turpie: The value of marine protected areas along the Garden Route Coast, and implications of changes in levels of protection

Biennial Conference of The Economic Society of South Africa, University Of

Stellenbosch, Stellenbosch, South Africa, 5-7 September 2011

- Johane Dikgang: Estimating Optimal Conservation Fees in the Presence of Land Restitution in the Kgalagadi Transfrontier Park between Botswana and South Africa

13th Annual BIOECON Conference “Resource Economics, Biodiversity Conservation and Development”, (11th-13th September 2011), Geneva, Switzerland

- Mare Sarr: Paper presentation: Groundwater use in Tunisia: A choice experiment and Invited Lecture: Values of Biodiversity/Genetic Resources for R&D
- Johane Dikgang: Paper presentation: The valuation of biodiversity conservation by the South African San “bushmen”

AERC biannual research & cpp class of 2009 post field work workshop, Dec 2011, Nairobi, Kenya

- Coretha Komba: Adaptation to climate change by smallholder farmers in Tanzania

Annual conference of the African Econometric Society, Nairobi, Kenya

- Adewara Sunday: Democracy-health inequality nexus: Empirical Evidence from Nigeria

PRESENTATIONS AT ACADEMIC SEMINARS

PhD seminar, New Economics building, April, 2011

- Coretha Komba: Climate Vulnerability, Climate Adaptation And Climate Mitigation In Tanzania

WRC People and livelihoods, East London Sep 2011

- Jane Turpie: Assessing the livelihood benefits of aquatic ecosystems

UNEAP, (October, 2011); Nairobi, Kenya

- Edwin Muchapondwa; Optimal Park Pricing

5th annual Efd (Environment for Development) meeting; (Oct 27th – 30th, 2011); Mount Menu Hotel, Arusha, Tanzania

- Tony Leiman: Investigation Into The Feasibility Of Utilising The South African Anchovy For Human Consumption
- Jane Turpie: Value of the Kogelberg coast and implications of changes in management
- Johane Dikgang: Estimating Optimal Conservation Fees in the Presence of Land Restitution in the Kgalagadi Transfrontier Park between Botswana and South Africa
- Byela Tibesigwa: Poverty, resource scarcity and climate variability



Mare Sarr (number three from left) was a Visiting Lecturer in Environmental Economics I, Joint Facility for Electives, African Economic Research Consortium.

ACADEMIC CAPACITY BUILDING

The EfD academic capacity building component is designed to minimize the shortage of trained environmental economists in developing countries by supporting undergraduate and postgraduate studies in environmental economics and by building the capacity of local public universities through teaching support, research grants, books and other support. Linking research with academia is one of the unique features of EfD.

EPRU's research fellows are actively involved in the School of Economics, teaching programs in environmental and natural resource economics as well as in the broader university. Our strong involvement in teaching has undoubtedly helped us attract promising Postgraduate students. In addition, in order to support talented students to undertake research in our fields of interest, EPRU provides grants to Masters and PhD students. Finally, we also award prizes to reward the best Honours and Masters Thesis.

THESES PHD & MSC

Samson Mukanjari

"Evaluating the prospects of benefit sharing schemes in protecting mountain gorillas in Central Africa", supervised by Edwin Muchapondwa.

Pierre Heistein

"Redistribution and sustainability: competing imperatives in the South African hake fishery", supervised by Tony Leiman.

Thulani Madinginye

"Nationalization as an Economic Tool", supervised by Tony Leiman.

Honours courses in environmental economics

ECO4052S - Environmental Economics

Students

10

Fellow(s) teaching the course

Tony Leiman and Martine Visser

Master courses in environmental economicsECO5052S - Natural Resource Economics
Visiting Lecturer, Environmental Economics I
Joint Facility for Electives**Students**

4

Fellow(s) teaching the course

Tony Leiman, Martine Visser and Mare Sarr

African Economic Research Consortium (Nairobi)

38

Mare Sarr

Master courses in conservation biology

Environmental and resource economics module

Students

12

Fellow(s) teaching the course

Jane Turpie

PhD courses in environmental economics

ECO5052S - Natural Resource Economics

Students

4

Fellow(s) teaching the course

Tony Leiman, Martine Visser and Mare Sarr

Ad hoc Training CourseEconomics of Climate Change hosted by UNU-WIDER
aimed at African practitioners and policy makers**Students****Fellow(s) teaching the course**

Martine Visser

SPREADING THE WORD

News about research and policy interaction

Read more in the website www.efdinitiative.org/centers/south-africa/news-press

2011-12-22

RFF/EfD Book Launch on January 11, 2012 at the University of Cape Town: Higher petrol taxes don't hurt the poor

The book, "Fuel Taxes and the Poor, The Distributional Effects of Gasoline Taxation and Their Implications for Climate Policy" will be launched at the University of Cape Town, School of Economics on January 11, 2012. EfD research fellow Professor Thomas Sterner, who is also the editor of the book, will be accompanied by EPRU research fellows for the book launch.

2011-12-21

Sterner teaches UCT masters course on environmental issues in developing countries

Poverty, natural resource management, and environmental degradation are inextricably linked, and this course explores ways that economic analysis can help identify underlying problems and formulate effective policy responses to them. This course, Sustainable Development and the Economics of Climate Change, is a 10-day field course on environmental issues in developing countries, with an emphasis on issues surrounding global climate change. Thomas Sterner, professor in

environmental economics at the University of Gothenburg, are among the lecturers.

2011-12-02

Climate Change Negotiations and Fairness - EfD side event for COP17

"What is Fair: An Experimental Guide to Climate Negotiations" is the title of the speech that will be held by Martine Visser, Associate Professor at University of Cape Town/EfD South Africa, at this EfD side event for COP 17 in Durban. Thomas Sterner, Professor of Environmental Economics at the University of Gothenburg and lead author in one IPCC working group will speak about "Building Climate Change Research Capacity in Developing Countries". He will also present the findings of the new book "Fuel Taxes and the Poor, authored by 35 renowned researchers. Mark Purdon, University of Toronto/EfD Tanzania will speak about CDM Afforestation Projects in Tanzania, Uganda.

2011-11-09

EPRU advises South African government on dealing with Climate Change in rural areas

South Africa has developed a set of national

goals in which the development of its impoverished rural areas is a high priority. Associate Professor Martine Visser and Dr Jane Turpie of EPRU, are undertaking research on the impacts of climate change on agricultural productivity in rural areas, the financial impacts of climate change on rural municipalities, and an overall spatial assessment of the vulnerability of rural municipalities to climate change. They will provide advice to the Fiscal and Financial Commission, which in turn advises parliament, on the measures that should be put in place to strengthen the resilience of rural areas to climate change

2011-10-12

University of Cape Town Students walk the talk in carbon trading

UCT students pile into a VC Beetle, demonstrating the importance of car pooling - and doing their best to limit their carbon footprint. Anthony Dane (a master's student in economics at UCT) and his supervisor, Associate Professor Martine Visser, recruited 60 students - 56 stayed on until the end - for a five-week exercise in personal carbon trading, specifically for carbon dioxide emitted during transport, be it by car, bus, carpooling, mini-bus, train,

bicycle or other. The students had to provide individual baseline emission numbers after the first week, and then commit to cutting their emissions over the following four.

2011-08-29

EfD South African Center EPRU hosts the Cape Town Optimum Energy Future (OEF)

The Optimum Energy Future debate hosted by EPRU the 16th of August at the UCT School Economics was the opportunity to discuss with policy decision makers, academics and other relevant stakeholders the future of the City of Cape Town Energy and Climate Action Plan (ECAP). Professor Anthony Black, EfD research associate is particularly involved in the project.

2011-05-13

Sustainable and Responsible Investment taught in Development Finance

EfD-EPRU Research Associate Dr Stephanie Giamporcaro lectured in March 2011 on Sustainable and Responsible Investment for the innovative Mphil in Development Finance launched recently by UCT Graduate School of Business and the Africa Growth Institute.

2011-05-13

Diamond revenues must improve infrastructure

Zimbabwe's civil servants offer vital services to the nation, unfortunately, the government's purse has not recovered from the crisis of the last decade. Recent media reports indicate that the Zimbabwean government has only managed to raise revenues of about US\$168 million every month. About 70 percent of this is gobbled-up by the monthly civil service wage bill of US\$117 million. Clearly, this does not leave much for other government recurrent and capital expenditures. Some people have suggested that civil service pay can come from government's US\$174 million diamond revenues. EPRU Research Fellow Associate Professor Edwin Muchapondwa contributed to this policy debate on diamond revenue in Zimbabwe.

2011-05-02

Park Pricing Workshop in Zimbabwe completed

Optimal park pricing can help achieve sustainable park management in eastern and southern Africa. The EfD center in South Africa, EPRU, co-hosted the second park pricing workshop in Victoria Falls, Zimbabwe, from 28 to 29 April 2011, together with Department of Economics at the University of Zimbabwe. It focused on an increasingly important sector with major values



Park pricing workshop participants on the shores of River Zambesi, Zimbabwe

at stake due to irreversibilities of some types of biodiversity loss.

2011-03-23

Reporting average electricity consumption makes households consume less

Reporting to people about their own and the average consumption of electricity caused all kinds of households in suburbs of Cape Town to significantly reduce their electricity consumption. This is the conclusion of initial research results from EfD South Africa. Households in the middle income suburbs were the most responsive, followed by lower income suburbs. The upper income suburbs responded the least.

2011-03-16

Addressing climate change through local leadership: a talk by Research Fellow Anthony Leiman

Anthony Leiman gave a talk on the economic value of the False Bay Ecology Park and the City of Cape Town nature reserves (including wetlands and green belt) at the conference Local Climate Solutions for Africa 2011 held in Cape Town end of February and coordinated by the organisation: Local Governments for Sustainability.

In the media

2011-10-03

UCT Monday Paper: University of Cape Town Students walk the talk in carbon trading UCT students pile into a VC Beetle, demonstrating the importance of car pooling - and doing their best to limit their carbon footprint.

Anthony Dane (a master's student in economics at UCT) and his supervisor, Associate Professor Martine Visser, recruited 60 students - 56 stayed on until the end - for a five-week exercise in personal carbon trading, specifically for carbon dioxide emitted during transport, be it by car, bus, carpooling, mini-bus, train, bicycle or other. The students had to provide individual baseline emission numbers after the first week, and then commit to cutting their emissions over the following four.

2011-04-08

The Financial Gazette: Diamond revenues must improve infrastructure

Zimbabwe's civil servants offer vital services to the nation, unfortunately, the government's purse has not recovered from the crisis of the last decade. Recent media reports indicate that the Zimbabwean government has only managed to raise revenues of about US\$168 million every month. About 70 percent of this is gobbled-up by the monthly civil service wage bill of US\$117 million. Clearly, this does not leave much for other government recurrent and capital expenditures. Some people have suggested that civil service pay can come from government's US\$174 million diamond revenues.

EPRU Research Fellow Associate Professor Edwin Muchapondwa contributed to this policy debate on diamond revenue in Zimbabwe. Read the full article: <http://www.financialgazette.co.zw/readers-forum/7845-diamond-revenues-must-improve-infrastructure.html>



EfD South Africa/EPRU's members in February 2012. Standing left to right: Edwin Muchapondwa, Martine Visser, Mare Sarr, Johane Dikgang, Esther Kimani, Byela Tibesigwa, Coretha Komba, Anthony Black, Helanya Fourie, Tony Leiman; Seated left to right: Jane Turpie, Kerri Brick, Stephanie Giamporcaro and Adewara Sunday. (Absent: Reviva Hasson and Letitia Sullivan)

THE SOUTH AFRICAN NODE IN THE EFD NETWORK

The Environmental-Economics Policy Research Unit (EPRU) is the South African branch of EfD. EPRU is based at the School of Economics at the University of Cape Town. EPRU is a collaborative association of researchers specializing in environmental and natural resource issues.

The unit was established in 2007 to promote sustainable development and poverty reduction in Southern Africa. To achieve this EPRU aims to enhance the effectiveness of environmental policy making by adopting a threefold strategy of research, teaching and policy consultation.

During the last five years, EPRU has built extensive policy-relevant experience in research pertaining to ecosystems management, biodiversity conservation, air quality and water quality. The centre also has previous research capacity and experience relevant to the socio-economics of agriculture, fisheries and conservation. Specifically, this strain of research has been concerned with farm workers' wages, land use and rural poverty, inequality

among subsistence fishermen, as well as the role of community-based wildlife conservation in poverty mitigation.

LOCAL RESEARCHERS AND STAFF

Mare Sarr

DIRECTOR

Jane Turpie

RESEARCH CONVENER

Martine Visser

SENIOR RESEARCH FELLOW

Edwin Muchapondwa

SENIOR RESEARCH FELLOW

Anthony Leiman

SENIOR RESEARCH FELLOW

Anthony Black

SENIOR RESEARCH FELLOW

Kerri Brick

JUNIOR RESEARCH FELLOW

Reviva Hasson

JUNIOR RESEARCH FELLOW

Johane Dikgang

JUNIOR RESEARCH FELLOW

Sunday Adewara

JUNIOR RESEARCH FELLOW

Networks

EPRU has successfully worked with a number of local and national stakeholders on medium-size projects, such as The South African National Parks in the wildlife sector, The Department of Water Affairs and Forestry in the water sector, The Department of Environmental Affairs and Tourism on marine and coastal management, and the City of Cape Town on air quality management and energy savings. In the next few years, EPRU plans to bid for larger research projects that will enhance collaboration among EPRU research fellows, with other researchers and, importantly, with key stakeholders.

Contact us

You are most welcome to contact EfD South Africa/Environmental-Economics Policy Research Unit (EPRU):

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Donors and funding

In 2011, EPRU received funding from the Swedish International Development Cooperation Agency (Sida), the African Climate & Development Initiative and the University of Cape Town Vice Chancellor (VC) Strategic Funds, the School of Economics (University of Cape Town) and CEEPA.

Number of donors	6	
List of Donors	Funding by donor during 2011	
1) CEEPA		1.80%
2) African Climate & Development Initiative		2.85%
3) VC Strategic Funds – UCT		5.55%
4) Carnegie Scholarship (UCT School of Economics)		10.50%
5) EfD		35.88%
6) UCT School of Economics (University Salaries)		43.42%
Sida/EfD funding as share of total center budget (incl. univ. salaries)		35,88%

Byela Tibesigwa

JUNIOR RESEARCH FELLOW

Grant Smith

JUNIOR RESEARCH FELLOW

Sue Synam

JUNIOR RESEARCH FELLOW

Coretha Komba

JUNIOR RESEARCH FELLOW

Esther Kimani

JUNIOR RESEARCH FELLOW

Letitia Sullivan

ADMINISTRATION OFFICER

DOMESTIC ASSOCIATES

Stephanie Giamporcaro

Precious Zikhali

Harald Winkler

Andrew Marquard

INTERNATIONAL ASSOCIATES

Thomas Sterner

Åsa Löfgren

Gunnar Köhlin

Wisdom Akpalu

Mintewab Bezabih

Andrea Mannberg

More details of each person are available on EfD website, in the center section of South Africa. www.efdinitiative.org/centers/south-africa



Elephants, South Africa.

THE EFD INITIATIVE IN BRIEF

Our vision is green economy; sustainable economic growth founded on efficient management of ecosystems, natural resources and climate change impacts.

The Environment for Development initiative received its name from our conviction that with proper management the environment can be seen as a source of development and not as a constraint.

Our mission is to contribute to poverty alleviation and sustainable development through increased use of environmental economics' capacity in policy design and policy-making processes pertaining to management of ecosystems, natural resources and climate change impacts. We use environmental economics tools to both identify the roots to environmental problems in modern economies, and to find what social and economic mechanisms can be used to solve them.

The foundation of the EfD initiative is its members, environmental economists in a selection of countries. As research fellows and associates we

work for EfD centers hosted by well-established academic institutions in China, Costa Rica (for Central America), Ethiopia, Kenya, South Africa and Tanzania. EfD have an important partner organization in Resources for the Future (RFF), Washington DC, USA. Our associates are based at RFF and several universities across the world. One of them, University of Gothenburg in Sweden, hosts the EfD secretariat.

The Swedish International Development Cooperation Agency (Sida) is currently a major funder of the EfD research and capacity building program through core administrative support, a research fund, and funds to strengthen academic training and policy interaction

EFD CENTERS AND PARTNERS

There are six EfD centers, hosted by universities or academic institutions in each respective country.

For more information on each center, please contact the Center Director/Coordinator:

CENTRAL AMERICA

Research Program in Economics and Environment for Development in Central America. Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)

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Phone: +506 558 2215 /2624



KENYA

Environment for Development Kenya

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

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Ethiopian Development Research Institute (EDRI/AAU)

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Environment for Development Tanzania

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EFD PARTNERS



UNIVERSITY OF GOTHENBURG
SCHOOL OF BUSINESS, ECONOMICS AND LAW



EEU, Environmental Economics Unit

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

Associate Professor Gunnar Köhlin

Director of EfD Program, University of Gothenburg

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Professor Thomas Sterner

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Karin Backteman, Communications officer

Environmental Economics Unit (EEU), University of Gothenburg

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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

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Phone: +202 328 5073



Sida

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



Environment for Development



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/south-africa

You are most welcome to contact us:

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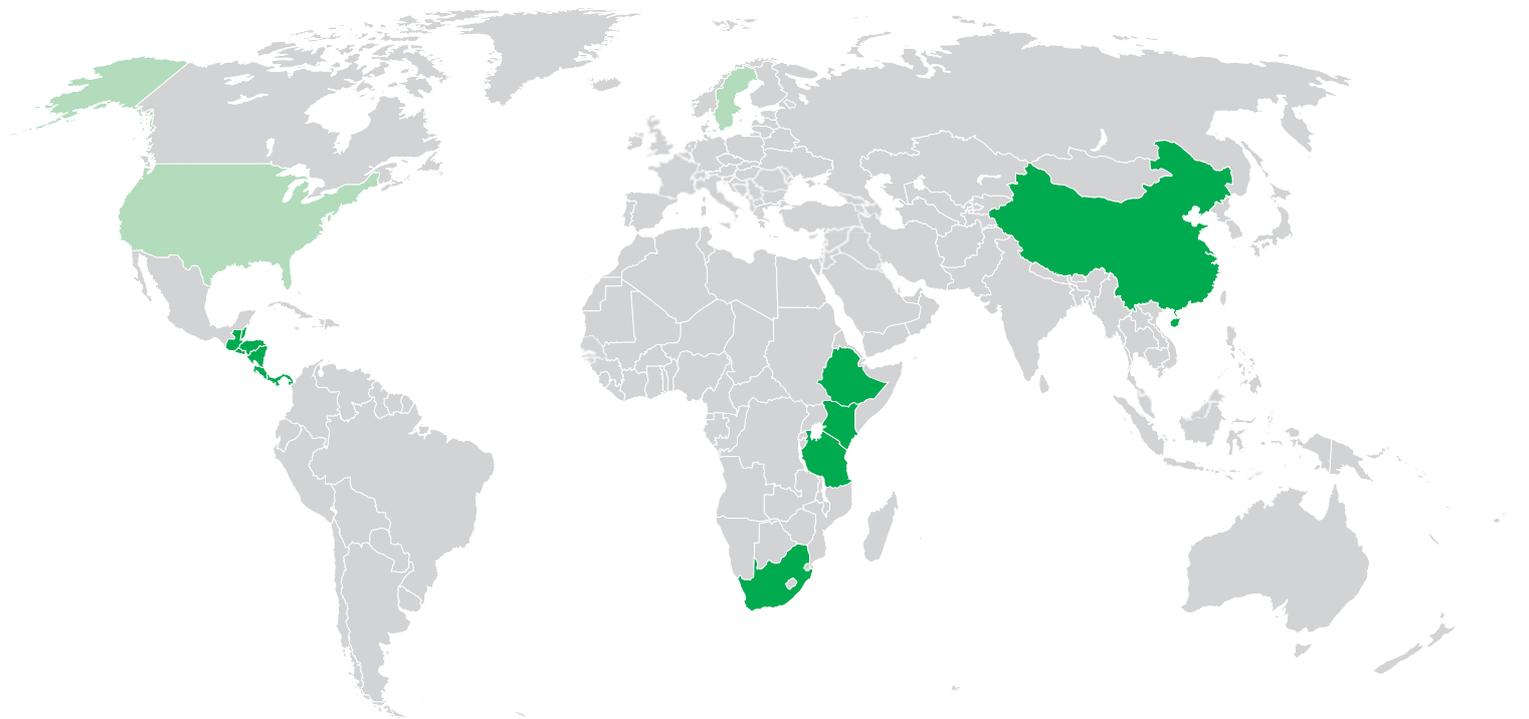
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EfD CENTERS

Central America, China, Ethiopia, Kenya, South Africa, Tanzania

PARTNERS

Sida, University of Gothenburg, RFF



UNIVERSITY OF GOTHENBURG
SCHOOL OF BUSINESS, ECONOMICS AND LAW

