

A research programme co-funded by DFID, NERC & ESRC and accredited by LWEC







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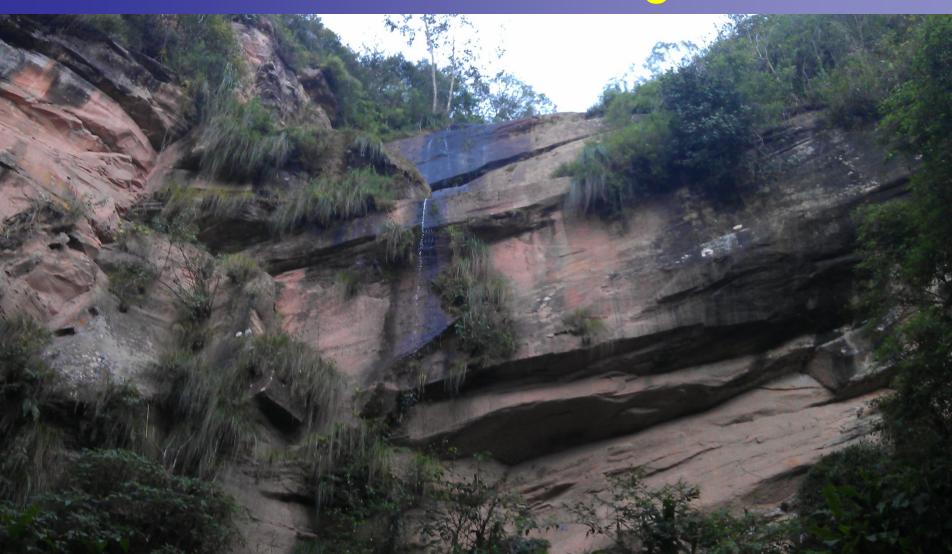








Evidence Challenges















Original Research















Working with Communities







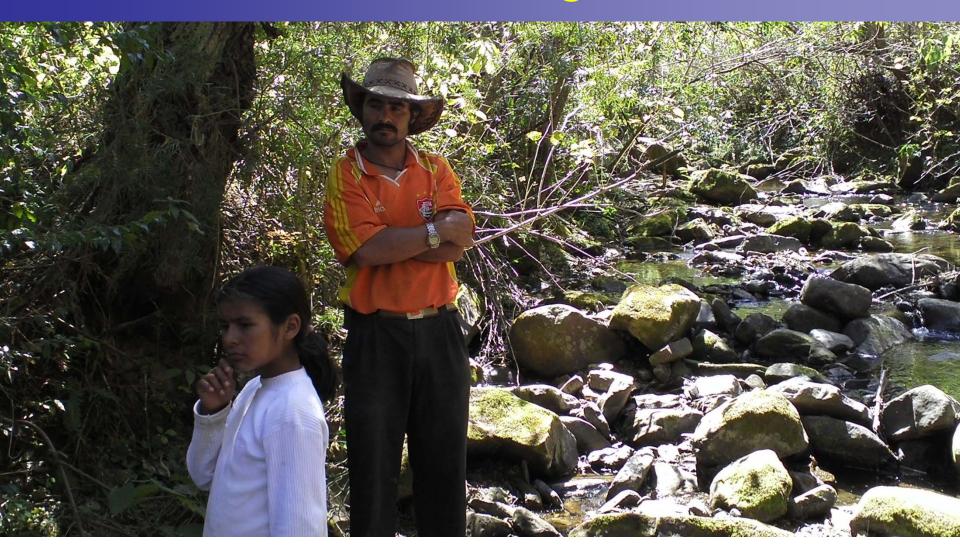








Listening







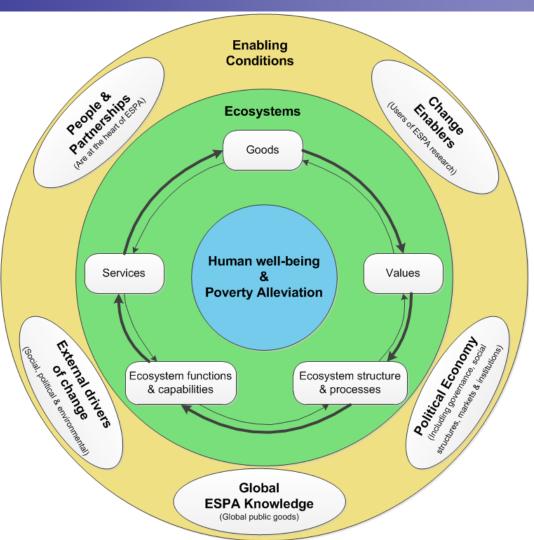








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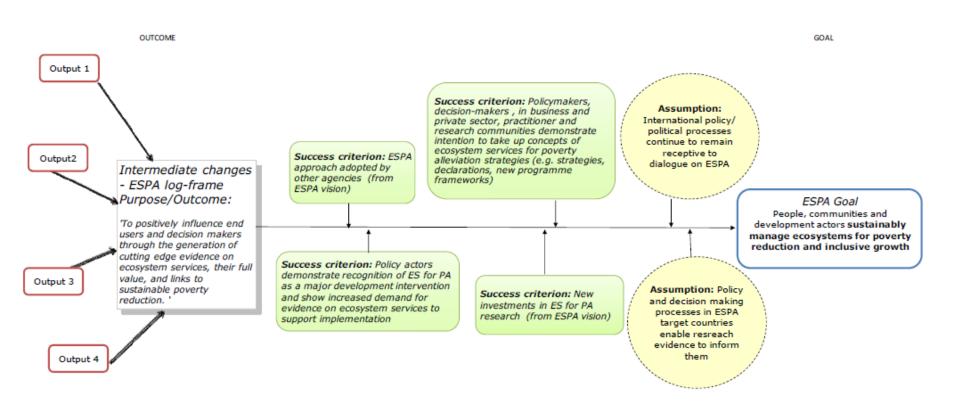




Cultural Organization



ESPA's Theory of Change....









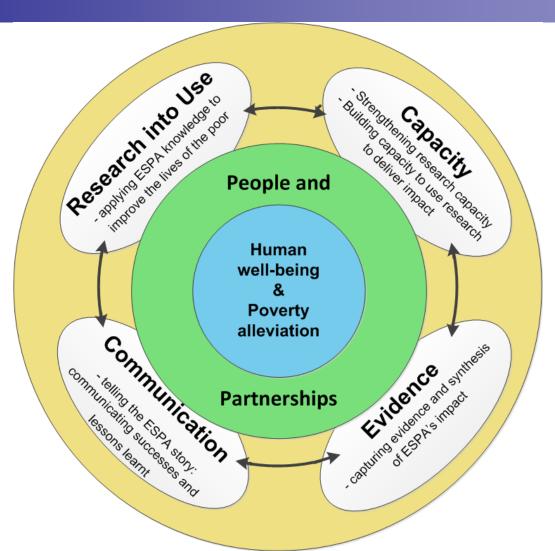




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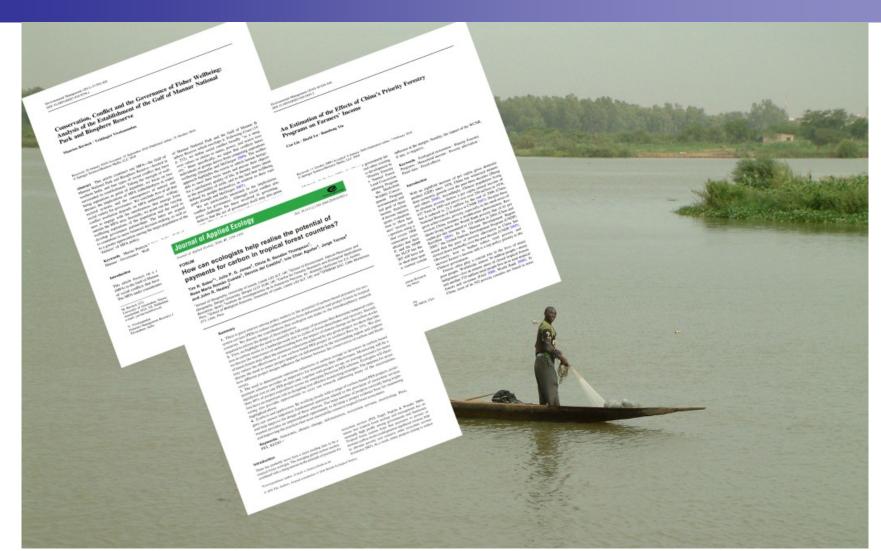








Generating Evidence















The "ABC" of ESPA's Impact

"A"

Attribution to the research project

"B"

Building communities for research and impact

3 "C"s

- Conceptualising impact
- Capturing impact
- Communicating impact













ESPA's making an Impact

http://www.espa.ac.uk/impact/making-impact



stem services making an impact

Learning from ESPA research

OCTOBER 2011

ABOUT THIS PROJECT

UK Department for Internation Development. The Economic and Social Research Council, The Natural Environment Research Counci

2009 to 2016

Amazonia, China, South Asia Sub-Saharan Africa

Biodiversity, coasts, forests, health, political

ESPA themes Objective

ESPA research will provide evidence and tools for decision makers to manage ecosystems in a way that helps reduce poverty and supports inclusive and sustainable growth.

Summary

The Ecosystem Services for Poverty Alleviation (ESPA) programme aims to deliver high-quality, cutting-edge research that will improve understanding of how provide and how they can reduce poverty and enhance wellbeing for the world's poor services to poverty alleviation through worldclass science, the programme is generating

series of 18 one- to two-year research projects demonstrating new ways of human wellbeing. These projects are beginning to yield development benefits for decision makers, and influence or international policy arenas.

ESPA impacts

An interdisciplinary research programme applies new tools to show how ecosystem services can reduce poverty



We all rely on the services that healthy ecosystems provide. The world's poorest people are often most directly dependent - left empty-handed if firewood or fertile cropland secomes scarce, for example, or exposed to flooding from degraded watersheds. But many of these same people serve as custodians of globally important resources, such as forests hat soak up carbon emissions.

There is also growing evidence that recent efforts to reduce poverty have had severe impacts on ecosystems, which could lead to greater vulnerability and poverty in the future. The relationship between ecosystems and poverty is increasingly recognised, but we still know little about how both sides can thrive in a

The Ecosystem Services for Poverty Alleviation rogramme produces knowledge and tools to address this challenge, through research in Amazonia, China, South Asia and Sub-Saharan Africa. Two years into the seven-year programme, we are seeing early impacts, from local communities to international policy

Four examples show how ESPA projects are innovating different aspects of environmental a project called Swahili Seas - co-led by a top Kenyan ecologist - has struck a deal restored mangrove forests. As the first 'carbon credit' project for mangroves, the project taps a new source of funding for community-based conservation. Practical solutions, such as carbon-accounting methods and spending a working model for other groups. in Bolivia's Santa Cruz valleys, a local NGO is also arranging to pay local people for protecting forests. But here the focus effectiveness. The project takes an idea from experimental economics — controlled measure impact — and applies it. for the first

Innovations and results

time, to conservation and poverty. Results will

making an impact Learning from ESPA research

OCTOBER 2011

ABOUT THIS PROJECT

Swahili Seas

Principal investigator Mark Huxham, Edinburgh Napier University

Kenya Marine and Fisheries Research Institute, Kenya Forest Service, Earthwatch Institute, Aviva, Edinburgh University, Bangor University, Birmingham University

Time frame

ESPA regions

ESPA themes

This project pioneers new ways of studying evaluating and managing mangroves through a carbon credit project and assessment of Kenyan mangroves' economic value. The work will build local capacity for these activities and offer lessons to groups working

in other ecosystems

'Carbon credits' often reward industry or large landowners for reducing the global greenhouse gas load. Could such programmes be designed to help the rural poor preserve the ecosystems they rely on? Swahili Seas, the first carbon credi project for mangrove forest conservation, is demonstrating how to run such communityan entire village, while meeting expectations of the international carbon market.

Innovative solutions from the Kenya-based project, such as a new carbon accounting spread through the developing world. For Kenyan policymakers, the research team management across the country and is talking with officials about how the Swahili Seas programme. An East African policy focus has been created to exchange information

First out more: www.esna.an.uk/nmierts/ne.i003401.

Mangroves to market

The first mangrove carbon credit project is assessing coastal forests' potential in new ways



Some of the poorest people on Earth rely on the mangrove forests that fringe the East African coast. Bridging sea and land, the trees provide storm protection and fish nurseries as well as terrestrial goods, such as frewcood And mangroves offer another service to the globe: even more than terrestrial forests, they fight climate change by sucking carbon out of the air and storing it safely underground. But 30-50 per cent of all mangroves have been cut down or burnt in the past half-century, placing them among the Earth's most threate ecosystems. Considering the value of these coastal forests, it's one of the world's great

- is working to counter this loss and help local people get the most out of mangroves Centred in southern Kenya's Gazi Bay, researchers are exploring new ways to demonstrate the forests' worth and tap their carbon storage potential to benefit poor

Earlier work in Gazi Bay, led by Mark Huxham of Edinburgh Napier University and James Kairo of the Kenya Marine and Fisheries Research Institute, discovered how to restore cleared mangrove stands — even in areas where salty stumps have stood lifeless for 40 years. Now, the team is collaborating with an international 'carbon credit' scheme to sell the carbon storage created through mangrove reforestation and conservation

Swahili Seas is the first mangrove carbon storage project to win international accreditation, based on the researchers careful measurements of Kenyan carbon stocks. The ESPA funded demonstration project, which launches in late 2011, employs Gazi residents and volunteers from international NGO Earthwatch to restore mangroves and prevent deforestation over 615 hectares of coastline. Income from carbon credits, worth US\$15,000 each year, will fund continued conservation as well as village improvements chosen by the community. A



ecosystem services making an impact

OCTOBER 2011

ABOUT THIS PROJECT

What types of investment can most cost-effectively ensure ecosystem service provision? A randomised program

Nigel Asquith, Fundación Natura Bolivia

Kelsey Jack, Sustainability Science Program, Harvard University, Sampurno

ESPA regions **ESPA** themes

Biodiversity, forests, political economy, wat

Using a controlled experimental design odelled on the natural sciences, this project is evaluating the impact of a payments for ecosystem services (PES) scheme on water quality, biodiversity, forest poor in Bolivia's farming communities.

Despite the billions spent on programmer ommunities, there is rarely good evidence that these projects have their intended Bolivia, a unique large-scale experiment. is underway, testing a forest conservation scheme across 130 villages - divided randomly into groups who do or do not receive payments for protecting forested watersheds. The experiment will show whether conditional in-kind payments for conservation actually lead to environmenta shed new light on the relationship betwee poverty and ecosystem service provision. The results will provide useful feedback for NGOs and governments rolling out similar schemes elsewhere. And it is hoped that the project's scientific approach will serve as a model for other action-research croups.

Do ecosystem conservation projects work?

How can NGOs and donors measure the impact of work on forest conservation and poverty?



Imagine running an pharmaceutical trial in which you take a patient suffering from a fever and give them an aspirin. If the patient gets better, you'll conclude the aspirin worked. If the patient's condition worsens or becomes fatal you'll conclude the aspirin was not the best treatment. Of course, the patient might have improved without the drug, and if their conditio had worsened you wouldn't know if the aspirin had slowed the decline - that's why real drug trials enrol many patients and use control groups. But you have an ailing patient, and you think a pill should help. It simply seems wrong not to try.

Most monitoring and evaluation of conservatio programmes takes an analogous approach. argues Nigel Asquith - especially when the aim is to protect ecological resources for the benefit of the poor. Asquith, a conservation olicy researcher at the Bolivian NGO Natura Rollyla, is leading a project to introduce more

For the past two years, Natura Bolivia and colleagues from Harvard University and Vrije University Amsterdam have been preparing large-scale, controlled tests of a programme

forests in south-eastern Bolivia. other donors, Natura Bolivia has successfully plioted reciprocal watershed agreements small-scale, locally-managed payments

for ecosystem services (PES) initiatives since 2003. The NGO has worked with local ommunities that cattle-grazing in forests along streams contaminates water supplies and exacerbates droughts for downstream farmers. Water users and providers then negotiate in-kind payments - such as beehives - so that landowners can preserve the upstream wooded watersheds while gaining steady income from them.

The Natura-led initiatives have grown from 1,235 protected acres to 22,000 acres in 2010. In 2007, a new 1.8-million-acre protected area was created to conserve the forested headwaters of the Santa Cruz valleys, providing an opportunity for villagers within the protecte area to adopt their own watershed agreements

Find out more: www.espa.ac.uk/projects/ne-i00436x-











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Questions for our Researchers

- Who will use your research?
 - Who are the intended ultimate beneficiaries?
- *How* will your research be used?
 - How will the lives of poor people be changed by your research being put into use?
- What will your project do to ensure that that this happens?
 - What needs to be done to track the development impact of your work?











