

## LESSONS LEARNED

# Climate Adaptation in Tanzania with Ecosystem Restoration & Flood Defence Infrastructure

UNEP Lessons in Climate Change Adaptation

PROJECT NAME	LOCATION	EXECUTING AGENCY
1. Developing core capacity to address adaptation to climate change in productive coastal zones (GEF ID 4141) 2. Implementation of concrete adaptation measures to reduce vulnerability of livelihoods and economy of coastal communities (AUS 2048)	 The GEF project was implemented in Dar es Salaam (Zanzibar). The AF project was implemented in Dar es Salaam (Zanzibar).	Vice President's Office, Government of Tanzania
IMPLEMENTING AGENCY	MAIN APPROACHES	SDGs
UNEP	 Flood defence infrastructure  Ecosystem-based adaptation  Scientific & technical capacity  Public engagement & awareness raising	   
BUDGET		TIMEFRAME
GEF: \$3.36m, plus co-finance of \$41.9m AF: \$4.62m		2012-2019

## Summary

In 2012, the Government of Tanzania secured funding from the Adaptation Fund and the Global Environment Facility's Least Developed Country Fund to reduce the negative impacts of climate change on vulnerable communities in coastal areas. The country is facing the impacts of climate change on the coasts through rain-induced flooding and sea-level rise.

A major approach of the projects was to build the resilience of coastal communities by restoring and building concrete infrastructure, such as seawalls and urban drainage systems, which are expected to withstand climate change and protect communities and assets. To complement the grey infrastructure, the projects restored mangrove and coral habitats, both of which act as natural barriers and buffers against

wave surges. The use of nature-based solutions for adapting to climate change is known as ecosystem-based adaptation (EbA).

Both projects have reduced climate vulnerability in critical coastal areas, assisted the country to implement its National Action Programme for Adaptation (NAPA), restored key ecosystems, and are estimated to have directly benefitted a total of at least 58,000 people, in addition to the economic benefits to the local economies in the coastal areas covered in the project.

In all components of the project, key lessons were learned for best practices for monitoring and evaluation, sustainability and upscaling, EbA implementation and project design.

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# The Abatement Of Vulnerability And Adaptation To Climate Change Impacts In Tanzania

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## **The Abebment Of Vulnerability And Adaptation To Climate Change Impacts In Tanzania:**

The Assessment of Vulnerability and Adaptation to Climate Change Impacts in Tanzania M. J. Mwandosya, Buruhani Salum Nyenzi, Matthew Laban Luhanga, 1998      *Experiences of Climate Change Adaptation in Africa* Walter Leal Filho, 2011-08-08 It is widely acknowledged that in addition to global and regional efforts to cope with climate change by means of mitigation measures adaptation initiatives can and perhaps should play a key role in enabling communities from across Africa to better handle the problems related to it Due to the fact that experiences in climate change adaptation in Africa are poorly documented this book provides an attempt to address the perceived need for better documentation and dissemination of African experiences on climate change adaptation      Climate Variability and Change in Africa Jonathan I. Matondo, Berhanu F. Alemaw, Wennegouda Jean Pierre Sandwidi, 2020-01-01 This book presents a comprehensive overview of climate variability and change in Africa and includes impact assessments and case studies from integration frameworks with a particular focus on climate agriculture and water resources Richly illustrated the book highlights case studies from western eastern and southern African region and explores related development policies Climate change adaptation research prediction and reanalysis are also addressed      Climate Change Impacts and Sustainability Pius Z. Yanda, Claude G. Mung'ong'o, Edmund B. Mabhuye, 2020-06-02 This book provides a detailed analysis of the economic and environmental impacts of climate change on the tropical ecosystems in Tanzania Topics covered include agriculture marine resources wildlife and weather forecasting The analyses concentrate on real and potential impacts of climate change focusing on changes in temperature and precipitation Adaptive capacity and strategies for enhancing resilience such as changing crop types and crop patterns in farming are described      **Sustainable Intensification to Advance Food Security and Enhance Climate Resilience in Africa** Rattan Lal, Bal Ram Singh, Dismas L. Mwaseba, David Kraybill, David O. Hansen, Lars Olav Eik, 2014-10-10 This 32 chapter volume represents the core of several oral and poster presentations made at the conference In addition to Introduction and Conclusion sections the book is thematically divided into 7 sections namely 1 Land Use and Farming Systems 2 Effects of Climate Change on Crop Yield 3 Soil Nutrient and Water Management for Carbon Sequestration 4 Rehabilitation of Degraded Lands through Forestry and Agroforestry 5 Management of Animal Production for Greenhouse Gas Emissions 6 Smallholder Adaptation to Climate Change and 7 Economic Social and Policy Issues It addresses these themes in the context of sustainable intensification SI It implies increasing agronomic production from the existing land while improving restoring its quality and decreasing the C or environmental footprint Simply put SI means producing more from less      **Sustainable Tourism Development in Tanzania** Wineaster Anderson, Lena Mossberg, Tommy D. Andersson, 2020-12-11 Tanzania is rivalled by few countries if any in terms of its bountiful natural and cultural tourist attractions Given that tourism development if sustainable is an outstanding policy for distributing welfare even to less developed parts of a country this field is of particular importance to Tanzania In this edited volume prominent

scholars focus on the practises and policies of tourism development with a particular eye on the case of Tanzania They explore the demand for sustainability from international tourists the need for local food and linkages between the tourism and agricultural sectors and the production of tourism services in a responsible and inclusive way The book will be a valuable source of knowledge for the tourism industry as well as policymakers scholars and students who are concerned about the development of a form of tourism which benefits a country inclusively and responsibly

**Climate Change and Sustainable Urban Development in Africa and Asia** Belinda Yuen,Asfaw Kumssa,2010-11-22 This book is about African and Asian cities Illustrated through selected case cities the book brings together a rich collection of papers by leading scholars and practitioners in Africa and Asia to offer empirical analysis and up to date discussions and assessments of the urban challenges and solutions for their cities A number of key topics concerning housing sustainable urban development and climate change in Africa and Asia are explored along with how policy interventions and partnerships deliver specific forms of urban development It is intended for all who are interested in the state of the cities and urban development in Africa and Asia Africa and Asia present in many ways useful lessons in dealing with the burgeoning urban population and the problems surrounding this influx of people and climate change in the developing word

Implementing Climate Change Adaptation in Cities and Communities Walter Leal Filho,Kathryn Adamson,Rachel M. Dunk,Ulisses M. Azeiteiro,Sam Illingworth,Fátima Alves,2016-06-13 This book analyzes how climate change adaptation can be implemented at the community regional and national level Featuring a variety of case studies it illustrates strategies initiatives and projects currently being implemented across the world In addition to the challenges faced by communities cities and regions seeking to cope with climate change phenomena like floods droughts and other extreme events the respective chapters cover topics such as the adaptive capacities of water management organizations biodiversity conservation and indigenous and climate change adaptation strategies The book will appeal to a broad readership from scholars to policymakers interested in developing strategies for effectively addressing the impacts of climate change

**Climate Change and Disaster Risk Management** Walter Leal Filho,2012-08-10 There has been some degree of reluctance in the past to consider disaster risk management within the mainstream of adaptation to climate variability and climate change However there is now wide recognition of the need to incorporate disaster risk management concerns in dealing with such phenomena There is also a growing awareness of the necessity for a multi sectoral approach in managing the effects of climate variability and climate change since this can lead to a significant reduction of risk This book presents the latest findings from scientific research on climate variation climate change and their links with disaster risk management It showcases projects and other initiatives in this field that are being undertaken in both industrialised and developing countries by universities and scientific institutions government bodies national and international agencies NGOs and other stakeholders Finally it discusses current and future challenges identifying opportunities and highlighting the still unrealised potential for promoting better understanding of the

connections between climate variation climate change and disaster risk management worldwide

**The Fabric of Peace in Africa** Pamela Aall, Chester A. Crocker, 2017-06-05 Africa has experienced dozens of conflicts over a variety of issues during the past two decades Responding to these conflicts requires concerted action to manage the crises the violence the political discord and the humanitarian consequences of prolonged fighting It is also necessary to address the long term social and economic impacts of conflict to rebuild communities societies and states that have been torn apart To accomplish this requires the involvement of institutions and groups rarely considered in formal official African conflict management activities schools universities religious institutions media commercial enterprises legal institutions civil society groups youth women and migrants These groups and organizations have an important role to play in building a sense of identity fairness shared norms and cohesion between state and society all critical components of the fabric of peace and security in Africa This volume brings together leading experts from Africa Europe and North America to examine these critical social institutions and groups and consider how they can either improve or impede peaceful conflict resolution The overarching questions that are explored by the authors are What constitutes social cohesion and resilience in the face of conflict What are the threats to cohesion and resilience And how can the positive elements be fostered and by whom The second of two volumes on African conflict management capacity by the editors The Fabric of Peace in Africa Looking beyond the State opens new doors of understanding for students scholars and practitioners focused on strengthening peace in Africa the first volume Minding the Gap African Conflict Management in a Time of change focused on the role of mediation and peacekeeping in managing violence and political crises

**The Climate-Smart Agriculture Papers** Todd S. Rosenstock, Andreea Nowak, Evan Girvetz, 2018-11-28 This book is open access under a CC BY 4.0 license This volume shares new data relating to Climate Smart Agriculture CSA with emphasis on experiences in Eastern and Southern Africa The book is a collection of research by authors from over 30 institutions spanning the public and private sectors with specific knowledge on agricultural development in the region discussed The material is assembled to answer key questions on the following five topic areas

- 1 Climate impacts What are the most significant current and near future climate risks undermining smallholder livelihoods
- 2 Varieties How can climate smart varieties be delivered quickly and cost effectively to smallholders
- 3 Farm management What are key lessons on the contributions from soil and water management to climate risk reduction and how should interventions be prioritized
- 4 Value chains How can climate risks to supply and value chains be reduced and
- 5 Scaling up How can most promising climate risks reduction strategies be quickly scaled up and what are critical success factors

Readers who will be interested in this book include students policy makers and researchers studying climate change impacts on agriculture and agricultural sustainability

*New Perspectives in Climate Change* Emerald Group Publishing Limited, 2015-10-29 New Perspectives in Climate Change is a unique collection of articles that discuss key areas of research among academics in the field These include the following Climate change adaptation Vulnerability to and mitigation of climate change This collection

provides an unparalleled insight into the subject of climate change

**Quantification of Climate Variability, Adaptation and Mitigation for Agricultural Sustainability** Mukhtar Ahmed, Claudio O. Stockle, 2016-09-06 This book is a comprehensive volume dealing with climate change impacts on agriculture and which can help guide the redesign of agricultural management and cropping systems It includes mitigation techniques such as use of bioenergy crops fertilizer and manure management conservation tillage crop rotations cover crops and cropping intensity irrigation erosion control management of drained wetlands lime amendments residue management biochar and biotechnology It also includes Management of GHG emissions Crop models as decision support tools QTL analysis Crop water productivity Impacts of drought on cereal crops Silvopastoral systems Changing climate impact on wheat based cropping systems of South Asia Phosphorous dynamics under changing climate Role of bioinformatics The focus of the book is climate change mitigation to enhance sustainability in agriculture We present various kinds of mitigation options ways to minimize GHG emissions and better use of the latest techniques in conservation and environmental sustainability

*Urban Poverty and Climate Change* Manoj Roy, Sally Cawood, Michaela Hordijk, David Hulme, 2016-04-20 This book deepens the understanding of the broader processes that shape and mediate the responses to climate change of poor urban households and communities in Asia Africa and Latin America Representing an important contribution to the evolution of more effective pro poor climate change policies in urban areas by local governments national governments and international organisations this book is invaluable reading to students and scholars of environment and development studies

*Water* V I Grover, 2016-04-19 Water is one of the most essential element for the survival of living beings With the increase in demand and decreasing quality and quantity water has become one of the major issues and problems in the world today It is unevenly distributed geographically and temporally resulting in surpluses for some people and a threat for others This book c

**Climate and Land Degradation** Mannava VK Sivakumar, Ndegwa Ndiang'ui, 2007-10-11 In many parts of the world climatic variations are recognized as one of the major factors contributing to land degradation impacting on agricultural systems performance and management To accurately assess sustainable land management practices the climate resources and the risk of climate related or induced natural disasters in a region must be known Only when climate resources are paired with management or development practices can the land degradation potential be assessed and appropriate mitigation technologies be developed This book is based on an International Workshop held in Arusha Tanzania and should be of interest to all organizations and agencies interested in sustainable land management to arrest land degradation

**Climate Change and Adaptation** James Adejuwon, 2012 This book provides valuable lessons that will improve public policy and the quality of decisions that will affect generations to come Richard Moss Senior Director Climate and Energy United Nations Foundation An excellent addition to the body of knowledge on adaptation to climate change from the developing world which has been largely missing until now Saleemul Huq Director Climate Change Programme International Institute for Environment and Development This important volume is a valuable

effort on adaptation to climate change that needs to be on the desks of those seeking coping strategies for longer term responses to evolving climate changes Roger Kasperson Emeritus Clark University USA The IPCC winner of the Nobel Peace Prize for 2007 makes clear that while climate change mitigation is vital the world must also begin to adapt But how best can this be achieved This authoritative volume along with its companion on vulnerability resulting from the work of the Assessments of Impacts and Adaptations to Climate Change AIACC project launched with the IPCC in 2002 is the first to provide an in depth investigation of the stakes in developing countries It covers current practices for managing climate risks deficits between current practices and needs the changing nature of the risks due to human caused climate change strategies for adapting to changing risks and the need to integrate these strategies into development planning and resource management The book also identifies obstacles to effective adaptation and explores measures needed to create conditions that are favourable to climate change adaptation Published with TWAS and START

*Climate Change and Multi-Dimensional Sustainability in African Agriculture* Rattan Lal, David Kraybill, David O. Hansen, Bal Ram Singh, Theodosy Mosogoya, Lars Olav Eik, 2016-11-23 This 35 chapter book is based on several oral and poster presentations including both invited and contributory chapters The book is thematically based on four pillars of sustainability with focus on sub Saharan Africa SSA Environment Economic Social and Institutional The environmental sustainability which determines economic and social institutional sustainability refers to the rate of use of natural resources soil water landscape vegetation which can be continued indefinitely without degrading their quality productivity and ecosystem services for different ecoregions of SSA This book will help achieve the Sustainable Development Goals of the U N in SSA Therefore the book is of interest to agriculturalists economists social scientists policy makers extension agents and development bilateral organizations Basic principles explained in the book can be pertinent to all development organizations

*Indigenous knowledge systems and climate change management in Africa* Ajayi, O.C. (ed), Mafongoya, P.L. (ed), 2017-11-15 Climate change presents a profound challenge to food security and sustainable development in Africa Its negative impacts are likely to be greatest in the African region which is already food insecure In the face of global climate change and its emerging challenges and unknowns it is essential that decision makers base policies on the best available knowledge In recent years the knowledge of local and indigenous people often referred to as indigenous knowledge IK has been increasingly recognised as an important source of climate knowledge and adaptation strategies

Global Biodiversity T. Pullaiah, 2018-12-07 This is the third volume in the new multi volume set Global Biodiversity Each volume in this series covers the biodiversity of a selection of nations in particular regions of the world The volumes discuss and summarize the available information on both wild and cultivated plants wild and domesticated animals and the variety of microbes of the different nations This volume looks at the biodiversity of selected countries of Africa providing a rich resource of biodiversity information on countries in different parts of Africa including Libya Morocco and Egypt in North Africa countries on the east coast including Gabon Ghana Sierra Leone

Togo Senegal land locked countries including Burkina Faso and Zambia countries on the west coast including Sudan Tanzania and South Africa With chapters written by research scientists and conservationists the book covers geographical status ecosystem diversity species diversity genetic diversity and conservation efforts in each selected country The authors provide statistical data on plants animals and microbes of that country along with genetic diversity with the focus on crop plants cultivated plants and domesticated animals and their wild relatives Endangered plants and animals and protected areas are discussed Other volumes in this series include coverage of selected countries in Asia Europe the Americas and Australia



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