

Middlesex University Research Repository

An open access repository of

Middlesex University research

<http://eprints.mdx.ac.uk>

Muchie, Mammo and Baskaran, Angathevar, eds. (2013) Building innovation research in Africa: case studies. Africa Institute of South Africa (AISA), TUT and Aalborg University, Pretoria, South Africa. ISBN 9780798303411

This version is available at: <http://eprints.mdx.ac.uk/10850/>

Copyright:

Middlesex University Research Repository makes the University's research available electronically.

Copyright and moral rights to this work are retained by the author and/or other copyright owners unless otherwise stated. The work is supplied on the understanding that any use for commercial gain is strictly forbidden. A copy may be downloaded for personal, non-commercial, research or study without prior permission and without charge.

Works, including theses and research projects, may not be reproduced in any format or medium, or extensive quotations taken from them, or their content changed in any way, without first obtaining permission in writing from the copyright holder(s). They may not be sold or exploited commercially in any format or medium without the prior written permission of the copyright holder(s).

Full bibliographic details must be given when referring to, or quoting from full items including the author's name, the title of the work, publication details where relevant (place, publisher, date), pagination, and for theses or dissertations the awarding institution, the degree type awarded, and the date of the award.

If you believe that any material held in the repository infringes copyright law, please contact the Repository Team at Middlesex University via the following email address:

eprints@mdx.ac.uk

The item will be removed from the repository while any claim is being investigated.

See also repository copyright: re-use policy: <http://eprints.mdx.ac.uk/policies.html#copy>

1 Embassy House
Cnr Bailey and Edmond Street
Arcadia, Pretoria

PO Box 630, Pretoria
0001 South Africa

Tel: +27 12 304 9700 (Switchboard)
Fax: +27 12 323 8153



**Africa Institute
of South Africa**
Development Through Knowledge

New Book Notification

BUILDING INNOVATION RESEARCH IN AFRICA Case Studies

Editors: Mammo Muchie and Angathevar Baskaran
ISBN: 978-0-7983-0341-1
Size: 245x170mm
Extent: 196 Pages
Price: R150.00
Availability: January 2013
Co-Published by AISA, TUT and AALBORG UNIVERSITY

African countries, taken separately, or grouped together as a unit, still largely remain resource-based economies. The challenge is to change the resource-based economic structure into a science, technology, engineering and innovation driven knowledge based economic system. Taking this challenge head on means African countries have to organise their science, technology, engineering and innovation for a development agenda systematically, more in collaboration than in competition with one another. What appears to remain a deficit is the vast collaborative distance that still exists on matters of critical importance to the economic transformation of Africa.



Council

Dr. B. Hlatshwayo (**Chairperson**), Prof. N. B. Biekpe, Dr. J. Daniel, Dr. K. S. Kongwa, Dr. T. Sidzumo-Mazibuko, Prof. Y. Sadie, Prof. N. Bohler-Muller
Mrs. S. Padayachy, Dr. N. Ramdhani, Mr. M. Nkoli, Dr. T. Auf der Heyde, Dr. M. P. Matlou (**Ex-officio**)

www.ai.org.za

CONTENTS

Preface

Contributing Authors

Introduction

CHAPTER 1

Evolution of the South African Science, Technology and Innovation System 1994–2010

An Exploration

Hendrik C Marais and Magdal Pienaar

Introduction

Main features of South Africa and its STI system

Conceptual framework

Hypothesis and research approach

Policy objectives

Funding of the STI system

Human resource equity

Steering

Findings

Conclusions

Acknowledgement

CHAPTER 2

Science and Technology Research

Repositioning the Thinking of Policy Makers in Nigeria

Olawale R Olaopa, Sunday T Akindele and

Omowumi M Hassan

Introduction

What is Science and Technology?

Current State of S&T Research in Nigeria



What is Public Policy?

Reasons for Policy Formulation and the Nature of Nigerian S&T Policy Formulation

Attitudes of Public Policy Makers Towards Science & Technology (Policy)

Research

Improving Public Policy Makers' Attitude to Science & Technology Policy Research

Conclusion

Abbreviations

References

CHAPTER 3

Component Dissemination Rates of Smallholder Maize

Business Innovation Package (MBIP) in Ghana

Mawuena Aggey, Nana Kwamina Tekyi Ghartey and

Charles Kweku Brown

Introduction

Materials and Methods

Findings and Discussions

Conclusions

Notes

References

Acknowledgement

CHAPTER 4

The Scourge of Inadequate Infrastructure in Nigeria

Akeem Ayofe Akinwale

Introduction

Methodology

The Concept of Infrastructure

The Sociological History of Infrastructure in Nigeria

Theoretical Framework



Cases of Inadequate Infrastructure in Nigeria
The SCOURGE of Inadequate Infrastructure in Nigeria
Efforts to REDUCE the Menace of Inadequate Infrastructure in Nigeria
Conclusion
References

CHAPTER 5

User Pattern Analysis of Mobile Payment Systems

Evidence from Nairobi, Kenya

Adrian D Kamotho Njenga

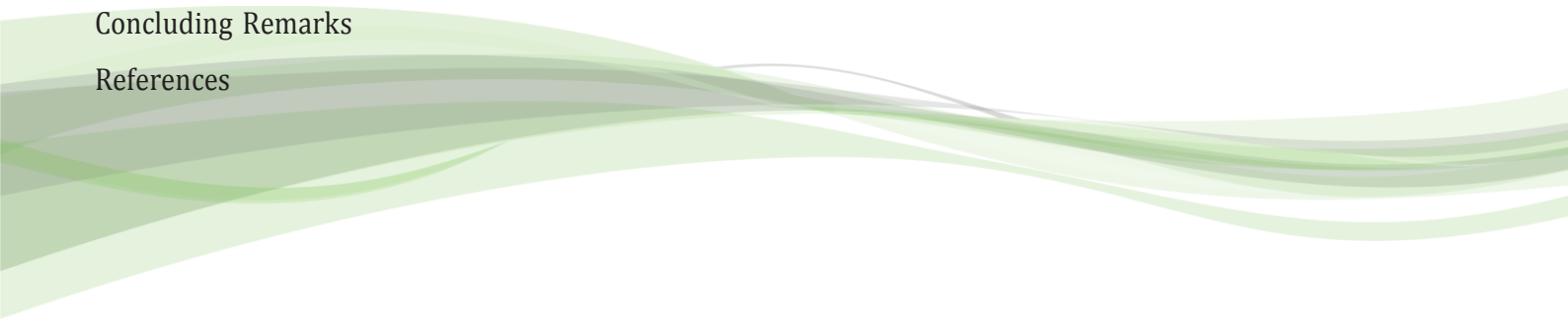
Introduction
Literature Review and Conceptual Framework
Data and Methodology
Results and Analysis
Conclusions and Recommendations
Note
References

CHAPTER 6

Governance and Challenges Facing the Nigerian Economy Is National Development Possible Without Technological Capability?

Victor E Dike

Methodology and Research Questions
Challenges facing the Nigerian Economy
Social Structure and Value System
And that's the crux of the matter
Meeting the Challenges
Concluding Remarks
References



CHAPTER 7

Technological Capability Building in Firms in the Agricultural Subsistence Sector of Tanzania Assessing the Role of Gatsby Clubs

Astrid Szogs and Kelefa Mwantima

Introduction

Theoretical and Analytical Framework

The Informal Sector

Research Methodology/Methods

The case: Technological capability building through the Gatsby Club mechanism

Conclusion

Notes

References

CHAPTER 8

Research on the State of Business Incubation Systems in Different Countries Lessons for Uganda

*Joshua Mutambi, Joseph K Byaruhanga, Lena Trojer and Kariko B
Buhwezi*

Introduction

Literature Review

Status of Business Incubators and their Impact on the World

Business Incubation in Uganda

Conclusions and Recommendations

Notes

References



CHAPTER 9

Science and Technology Policies in a Networked Environment

Case of Finland and South Africa

Helena Tapper

Introduction

Finland's Path from Industrial to Knowledge Economy

Science and Technology Policy and the Innovation System in Finland

Science and Technology and the Future of Finland: Finnsight 2015

Science and Technology Policy: Towards A Knowledge-Based Economy in South Africa

Conclusions

References

CHAPTER 10

Conclusions

To Order Contact

Africa Institute of South Africa

P.O. Box 630

Pretoria

0001

Tel: +12 304 9700

Fax: +12 323 8153

Email: publish@ai.org.za

Orders Worldwide excluding N. America

African Book Collective Ltd

P.O. Box 721

Oxford OX1 9EN

UK

Tel/Fax: +44 (0) 1869 349110

Email: orders@africanbookcollective.com

Orders from within N. American (US and Canada)

Michigan State University Press

1405 South Harrison Road

25 Manly Miles Building



East Lansing
MI 48823-5202
USA
Tel: +1 517 335 9543
Fax: +1 517 432 2611
Email: msupress@msu.edu

