



DIRECTIONS IN DEVELOPMENT
Infrastructure

Africa's ICT Infrastructure

Building on the Mobile Revolution

Mark D. J. Williams, Rebecca Mayer, and Michael Minges



THE WORLD BANK

Africas Ict Infrastructure Directions In Development

Iyamu, Tiko



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Africa's ICT Infrastructure Vivien Foster, Cecilia Briceño-Garmendia, 2011-06-23 Africa's ICT Infrastructure reviews how the investment in the sector has been financed and how the structure of the market has changed since the liberalization process started. It looks at the role of both private and public institutions as sources of financing for the sector and charts the emergence of investors from developing countries in leading the expansion of the sector across the region.

Africa's Infrastructure World Bank, 2009-12-01 Sustainable infrastructure development is vital for Africa's prosperity. And now is the time to begin the transformation. This volume is the culmination of an unprecedented effort to document, analyze, and interpret the full extent of the challenge in developing Sub-Saharan Africa's infrastructure sectors. As a result, it represents the most comprehensive reference currently available on infrastructure in the region. The book covers the five main economic infrastructure sectors: information and communication technology, irrigation, power, transport, and water and sanitation. Africa's Infrastructure: A Time for Transformation reflects the collaboration of a wide array of African regional institutions and development partners under the auspices of the Infrastructure Consortium for Africa. It presents the findings of the Africa Infrastructure Country Diagnostic (AICD), a project launched following a commitment in 2005 by the international community after the G8 summit at Gleneagles, Scotland, to scale up financial support for infrastructure development in Africa. The lack of reliable information in this area made it difficult to evaluate the success of past interventions, prioritize current allocations, and provide benchmarks for measuring future progress; hence the need for the AICD. Africa's infrastructure sectors lag well behind those of the rest of the world, and the gap is widening. Some of the main policy-relevant findings highlighted in the book include the following: infrastructure in the region is exceptionally expensive, with tariffs being many times higher than those found elsewhere; inadequate and expensive infrastructure is retarding growth by 2 percentage points each year; solving the problem will cost over US\$90 billion per year, which is more than twice what is being spent in Africa today. However, money alone is not the answer. Prudent policies, wise management, and sound maintenance can improve efficiency, thereby stretching the infrastructure dollar. There is the potential to recover an additional US\$17 billion a year from within the existing infrastructure resource envelope simply by improving efficiency. For example, improved revenue collection and utility management could generate US\$3.3 billion per year. Regional power trade could reduce annual costs by US\$2 billion. And deregulating the trucking industry could reduce freight costs by one-half. So raising more funds without also tackling inefficiencies would be like pouring water into a leaking bucket. Finally, the power sector and fragile states represent particular challenges. Even if every efficiency in every infrastructure sector could be captured, a substantial funding gap of \$31 billion a year would remain. Nevertheless, the African people and economies cannot wait any longer. Now is the time to begin the transformation to sustainable development.

Routledge Handbook of Counterterrorism and Counterinsurgency in Africa Usman A. Tar, 2021-01-28 This book illustrates how Africa's defence and security domains have been radically

altered by drastic changes in world politics and local ramifications First the contributions of numerous authors highlight the transnational dimensions of counterterrorism and counterinsurgency in Africa and reveal the roles played by African states and regional organisations in the global war on terror Second the volume critically evaluates the emerging regional architectures of countering terrorism insurgency and organised violence on the continent through the African Union Counterterrorism Framework AU CTF and Regional Security Complexes RSC Third the book sheds light on the counterterrorism and counterinsurgency CT COIN structures and mechanisms established by specific African states to contain degrade and eliminate terrorism insurgency and organised violence on the continent particularly the successes constraints and challenges of the emerging CT COIN mechanisms Finally the volume highlights the entry of non state actors such as civil society volunteer groups private security companies and defence contractors into the theatre of counterterrorism and counterinsurgency in Africa through volunteerism community support for state led CT COIN Operations and civil military cooperation CIMIC This book will be of use to students and scholars of security studies African studies international relations and terrorism studies and to practitioners of development defence security and strategy

Accelerating Poverty Reduction in Africa Kathleen Beegle, Luc Christiaensen, 2019-03-01 Sub Saharan Africa's turnaround over the past couple of decades has been dramatic After many years in decline the continent's economy picked up in the mid 1990s Along with this macroeconomic growth people became healthier many more youngsters attended schools and the rate of extreme poverty declined from 54 percent in 1990 to 41 percent in 2015 Political and social freedoms expanded and gender equality advanced Conflict in the region also subsided although it still claims thousands of civilian lives in some countries and still drives pressing numbers of displaced persons Despite Africa's widespread economic and social welfare accomplishments the region's challenges remain daunting Economic growth has slowed in recent years Poverty rates in many countries are the highest in the world And notably the number of poor in Africa is rising because of population growth From a global perspective the biggest concentration of poverty has shifted from South Asia to Africa *Accelerating Poverty Reduction in Africa* explores critical policy entry points to address the demographic societal and political drivers of poverty improve income earning opportunities both on and off the farm and better mobilize resources for the poor It looks beyond macroeconomic stability and growth critical yet insufficient components of these objectives to ask what more could be done and where policy makers should focus their attention to speed up poverty reduction The pro poor policy agenda advanced in this volume requires not only economic growth where the poor work and live but also mitigation of the many risks to which African households are exposed As such this report takes a jobs lens to its task It focuses squarely on the productivity and livelihoods of the poor and vulnerable that is what it will take to increase their earnings Finally it presents a road map for financing the poverty and development agenda *African Economic Outlook 2009 Country Notes: Volumes 1 and 2* OECD, African Development Bank, United Nations Economic Commission for Africa, 2009-12-04 The African Economic Outlook

2009 Country Notes volumes review the recent economic situation and predict the short term evolution of 47 African countries

Direction of innovation in developing countries and its driving forces World Intellectual Property Organization, Xiaolan Fu, Liu Shi, 2022-04-05 Innovation is a major driving force of long term economic growth and sustainable development Direction of innovation matters because technical change is not neutral and hence bears significant social economic and environmental development implications This paper contributes to the literature through a systematic examination of the direction of innovation in developing and emerging economies and its driving forces It shows that innovation in the global South exhibits a vibrant and diverse landscape when we do not confine ourselves with traditional research and innovation indicators While emerging economies are accelerating their pace in inventive activities in fields such as ICTs biotech and engineering low income countries LICs are also found to be active in learning based incremental under the radar innovations URIs These URIs that are introduced through international technology transfer and indigenous innovative efforts Indigenous sources of URIs play a primary role in LICs contributed by localised learning by doing close interaction with customers and embeddedness in regional production networks and clusters However insufficient role of the state a low science and technology intensity and a lack of university industry linkage limit the potential of URIs International technology transfer is another important driver of technical change in developing countries However its strength varies across countries due to differences in host country policy absorptive capacity and the type of foreign economic engagement that they have as well as the inappropriateness of transferred foreign technologies mostly from Global North Given the status of direction of innovation and its driving forces in developing countries this report argues that the unfolding 4th industrial revolution poses both challenges and opportunities to LICs Policy implications are discussed

The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications Pandey, Rajiv, Gupta, Amrit, Pandey, Agnivesh, 2022-09-23 The internet of medical things provides significant advantages for the well being of society by increasing the quality of life and reducing medical expenses An important step towards a smart healthcare system is to utilize the potential of existing technologies in order to deliver the best services to users and improve their circumstances With the help of internet of medical things technologies self care and early diagnosis are influential services in strengthening the healthcare ecosystem especially those which utilize remote monitoring systems The Internet of Medical Things IoMT and Telemedicine Frameworks and Applications focuses on the role of artificial intelligence the internet of medical things and telemedicine as well as the advantages and challenges that can occur from the integration of these technologies The book also evolves methodologies to develop frameworks for the integration of the internet of medical things and telemedicine Covering topics such as remote healthcare medical imaging and data science this reference work is ideal for researchers academicians scholars practitioners instructors and students

Empowering Businesses With Collaborative Enterprise Architecture Frameworks Iyamu, Tiko, 2020-08-07 Increasingly organizations allocate a substantial financial budget to the

acquisition implementation and management of IT solutions IT solutions are employed strategic partners in supporting business strategic outcome and the solutions are tools used to support operational activities within an environment Given the vast amounts being invested in IT solutions and development there is a need for a better return and outcome for organizations Empowering Businesses With Collaborative Enterprise Architecture Frameworks is an essential reference source that provides readers with pragmatic implementable strategies and direction to create IT with collaborative capabilities that can reduce the cost of running IT within an organization Moreover the book offers pragmatic roadmaps to adopting disruptive IT solutions effectively and efficiently and towards gaining a better understanding of enterprise architecture as a means to business decision making Featuring research on topics such as business engineering cloud computing and open systems this book is ideally designed for managers directors and other business decision makers government and industry policymakers business and enterprise architects industry professionals academicians researchers and students

e-Infrastructure and e-Services for Developing Countries Karl Jonas, Idris A. Rai, Maurice Tchunte, 2013-10-17 This book constitutes the thoroughly refereed post conference proceedings of the 4th International ICST Conference on e Infrastructure and e Services for Developing Countries AFRICOMM 2012 held in Yaounde Cameroon in November 2012 The 24 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics in the field of information and communication infrastructures and are grouped in topical sections on e Infrastructure e Services e Society e Health and e Security

Technology, Sustainability, and Rural Development in Africa Maumbe, Blessing, Okello, Julius J., 2013-03-31 This book provides research analytical methods techniques and development policies in ICT adoption and diffusion in Africa and around the globe highlighting the major trends in ICT applications and rural development Provided by publisher

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Table of Contents Africas Ict Infrastructure Directions In Development

1. Understanding the eBook Africas Ict Infrastructure Directions In Development
 - The Rise of Digital Reading Africas Ict Infrastructure Directions In Development
 - Advantages of eBooks Over Traditional Books
2. Identifying Africas Ict Infrastructure Directions In Development
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Africas Ict Infrastructure Directions In Development
 - User-Friendly Interface
4. Exploring eBook Recommendations from Africas Ict Infrastructure Directions In Development

- Personalized Recommendations
- Africas Ict Infrastructure Directions In Development User Reviews and Ratings
- Africas Ict Infrastructure Directions In Development and Bestseller Lists
- 5. Accessing Africas Ict Infrastructure Directions In Development Free and Paid eBooks
 - Africas Ict Infrastructure Directions In Development Public Domain eBooks
 - Africas Ict Infrastructure Directions In Development eBook Subscription Services
 - Africas Ict Infrastructure Directions In Development Budget-Friendly Options
- 6. Navigating Africas Ict Infrastructure Directions In Development eBook Formats
 - ePub, PDF, MOBI, and More
 - Africas Ict Infrastructure Directions In Development Compatibility with Devices
 - Africas Ict Infrastructure Directions In Development Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Africas Ict Infrastructure Directions In Development
 - Highlighting and Note-Taking Africas Ict Infrastructure Directions In Development
 - Interactive Elements Africas Ict Infrastructure Directions In Development
- 8. Staying Engaged with Africas Ict Infrastructure Directions In Development
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Africas Ict Infrastructure Directions In Development
- 9. Balancing eBooks and Physical Books Africas Ict Infrastructure Directions In Development
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Africas Ict Infrastructure Directions In Development
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Africas Ict Infrastructure Directions In Development
 - Setting Reading Goals Africas Ict Infrastructure Directions In Development
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Africas Ict Infrastructure Directions In Development

- Fact-Checking eBook Content of Africas Ict Infrastructure Directions In Development
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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