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Autore	Williams Mark D. J. <1972->
Titolo	Africa's ICT infrastructure : : building on the mobile revolution // Mark D.J. Williams, Rebecca Mayer, and Michael Minges
Pubbl/distr/stampa	Washington, D.C. : , : World Bank, , 2011
ISBN	0-8213-8676-X
Descrizione fisica	xxv, 279 pages : illustrations, maps ; ; 23 cm
Collana	Directions in development, infrastructure
Altri autori (Persone)	MayerRebecca MingesMichael FosterVivien <1968-> Briceno-GarmendiaCecilia
Disciplina	384.5/3
Soggetti	Information technology - Africa Telecommunication - Africa Economic assistance - Africa
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Vivien Foster and Cecilia Briceno-Garmendia, series editors."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; About the AICD; Series Foreword; About the Authors; Acknowledgments; Abbreviations; Chapter 1 Introduction; Figures; Chapter 2 Access to Telecommunications in Africa; Boxes; Tables; Chapter 3 Market Reform and Regulation; Chapter 4 Financing Telecommunications in Africa; Chapter 5 Future Investment Needs; Chapter 6 Policy Analysis and Conclusions; Appendix 1 Access to Telecommunications in Africa; Appendix 2 Market Reform and Regulation; Appendix 3 Financing Telecommunications in Africa; Appendix 4 Future Investment Needs Appendix 5 Rates of Penetration of ICT Services in Sub-Saharan AfricaIndex
Sommario/riassunto	Information and communication technologies (ICTs) have been a remarkable success in Africa. In just 10 years-dating from the end of the 1990s-mobile network coverage rose from 16 percent to 90 percent of the urban population and by 2009 nearly half of Africa's rural population was also living within range of a mobile network. Large-scale investment in the sector across the continent has transformed telecommunications from a luxury enjoyed by a privileged

few to a mass-market, low-cost service, used in villages and cities alike. Africa's ICT Infrastructure: Building on the Mobile Revolution char

2. Record Nr.	UNINA9910963610403321
Titolo	Toward sustainability : a plan for collaborative research on agriculture and natural resource management / / Panel for Collaborative Research Support for AID's Sustainable Agriculture and Natural Resource Management Program, Board on Agriculture [and] Board on Science and Technology for International Development, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1991
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Descrizione fisica	1 online resource (163 p.)
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Soggetti	Sustainable agriculture - Research - International cooperation Natural resources - Management - Research - International cooperation
Lingua di pubblicazione	Inglese
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Note generali	Summarizes the findings of the Forum on Sustainable Agriculture and Natural Resource Management held Nov. 13-16, 1990 at the National Academy of Sciences, Washington, D.C.
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Nota di contenuto	Toward Sustainability -- Copyright -- Preface -- Acknowledgments -- Contents -- Executive Summary -- THE CONCEPT OF SUSTAINABLE AGRICULTURE -- THE RESEARCH CHALLENGE -- The Need for a Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program -- Commitment to Systems-Based Research -- Commitment to Interdisciplinary Inquiry -- Research

Approach -- THE GRANT PROGRAM -- Grant Types -- Institutional Participation -- Content of Research Proposals -- Administrative Procedures -- Program Timetable -- CONCLUSION -- 1 Defining the Need -- AGRICULTURE, ENVIRONMENT, AND DEVELOPMENT -- CHARACTERISTICS OF SUSTAINABLE AGRICULTURE AND NATURAL RESOURCE MANAGEMENT SYSTEMS -- THE RESEARCH CHALLENGE: ADOPTING A SYSTEMS-BASED APPROACH -- 2 Expanding the Management Challenge -- HISTORY AND EVOLUTION OF THE COLLABORATIVE RESEARCH SUPPORT PROGRAMS -- CRSP INVOLVEMENT IN SUSTAINABLE AGRICULTURE -- 3 Considerations and Criteria for the SANREM Program Design -- PROGRAM OBJECTIVES -- CRITICAL AREAS OF INQUIRY -- 4 SANREM Program Management and Grant Administration -- ORGANIZATION AND MANAGEMENT OF THE SANREM CRSP -- Administration by a Management Entity -- Supporting Units -- Board of Directors -- Technical Committee -- External Evaluation Panel -- Sustainable Agriculture Committee -- GRANT ADMINISTRATION -- Types of Grants -- Research Planning Grants -- Research Core Grant -- Research Support Grants -- Funding Levels -- Institutional Participation -- CONTENT OF RESEARCH PROPOSALS -- Description of Research Location and Site -- Significance of Research and Site -- Problem Description and Research Methodology -- Systems-Based Approaches to Ecological and Socioeconomic Research -- Collaborative Arrangements Among U.S. and Host Country Institutions -- Information About Researchers and Other Collaborators. Capacity for Interdisciplinary Research -- Logistics -- Team Building -- Objectives, Goals, and Performance Indicators -- Data Collection, Management, and Information Sharing -- Feedback Mechanisms and Capacity for Flexibility -- Input from Sustainable Agriculture Professionals -- Farmer Participation -- Institutional Sustainability -- Broader Issues and Impacts -- Capacity to Develop Technologies and Disseminate Knowledge -- Budget -- CONCLUSION -- References -- Appendix A Introduction to Operational Issues -- Appendix B Sustainable Agriculture, International Agricultural Research, and Strategies for Research Collaboration -- INTERNATIONAL RESEARCH ON SUSTAINABLE AGRICULTURE -- NATIONAL AND INTERNATIONAL AGRICULTURAL RESEARCH INSTITUTIONS -- National Agricultural Research Systems -- International Agricultural Research Centers -- FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS -- U.S. DEPARTMENT OF AGRICULTURE -- AGENCY FOR INTERNATIONAL DEVELOPMENT -- U.S. UNIVERSITIES -- Synthesis and Analysis of Information -- Improvement in the Knowledge Base -- Strategic Planning -- THE CRITICAL CHALLENGE: REACHING THE FARMER -- STRATEGIES FOR EFFECTIVE RESEARCH COLLABORATIONS -- Build Consensus Through Outreach and Consultation -- Establish Genuine Partnerships -- Develop Shared Objectives, Work Plans, and Time Frames -- Pursue Practical and Feasible Research Agendas -- Create Responsive Communications Mechanisms -- Install Effective Management and Decision-Making Systems -- CONCLUSION: IMPLICATIONS FOR THE SANREM PROGRAM -- REFERENCES -- Appendix C Soil Research for Agricultural Sustainability in the Tropics -- SOIL RESEARCH ISSUES -- SOIL-RELATED CONSTRAINTS TO AGRICULTURAL PRODUCTION -- Soil Erosion -- Structural Deterioration and Soil Compaction -- Decline in Soil Organic Matter Content -- Fertility Depletion and Leaching -- Salt Imbalance. Drought Stress -- RESEARCHABLE PRIORITIES -- Nutrient Management -- Erosion Management -- Residue Management -- Crop Management -- Fallow Management -- Hedge-Row Management and Agroforestry -- Water Management -- Watershed Management -- SYSTEMS

APPROACH -- CONCLUSIONS -- REFERENCES -- Appendix D The Agroecosystems -- HUMID TROPICS AGROECOSYSTEMS -- SEMIARID RANGE AND SAVANNAH AGROECOSYSTEMS -- HILL LANDS -- INPUT-INTENSIVE AGROECOSYSTEMS -- COMMON PROPERTIES AND GENERAL RESEARCH CRITERIA -- Appendix E Integrated Nutrient Management for Crop Production -- THE LESSON FROM INTEGRATED PEST MANAGEMENT -- DEVELOPMENT OF AN INTEGRATED NUTRIENT MANAGEMENT PROGRAM -- REFERENCES -- Appendix F Integrated Pest Management for Sustainability in Developing Countries -- THE PRACTICE OF INTEGRATED PEST MANAGEMENT -- Integrated Arthropod Pest Management -- Regulatory Activities -- Cultural Control -- Biological Control -- Practical Examples of Insect Pest Management Programs -- Integrated Disease Management -- Approaches to Integrated Disease Management -- Examples of Successful Integrated Disease Management -- Integrated Weed Management -- Cultural Control -- Mechanical Control -- Cover Crops and Mulches -- Biological Control -- Chemical Control -- An Example of Integrated Weed Control -- Management of Vertebrate Pests -- THE INTEGRATION OF ARTHROPOD, NEMATODE, DISEASE, AND WEED MANAGEMENT -- THE RELATIONSHIP OF IPM TO SUSTAINABLE AGRICULTURE -- The Impact of Innovative Practices on Pest Management -- Mechanical Operations and Cultivations -- Nutrient Supply and Fertilizer -- Biodiversity and Cropping Patterns -- Integration of Farming Practices and Pest Management -- CONSTRAINTS TO THE ADOPTION OF INTEGRATED PEST MANAGEMENT IN DEVELOPING COUNTRIES -- Education -- Economic and Social Constraints -- Environmental Problems -- Policy Constraints -- Energy. Research and Extension Support -- REFERENCES -- Appendix G Project Bibliography -- BACKGROUND DOCUMENTS AND PAPERS -- Appendix H Program Participants -- AGENCY FOR INTERNATIONAL DEVELOPMENT -- Office of Agriculture -- Office of Rural Development -- Office of Forestry, Environment, and Natural Resources -- Bureau for Africa -- Bureau for Asia and Near East -- Bureau for Latin America and the Caribbean -- NATIONAL RESEARCH COUNCIL -- Board on Agriculture -- Board on Science and Technology for International Development -- Water Science and Technology Board -- Authors -- RECENT PUBLICATIONS OF THE BOARD ON AGRICULTURE -- RECENT PUBLICATIONS OF THE BOARD ON SCIENCE AND TECHNOLOGY FOR INTERNATIONAL DEVELOPMENT.

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Sommario/riassunto

Toward Sustainability recommends a design for a new Collaborative Research Support Program (CRSP) for the U.S. Agency for International Development (AID). Currently, eight CRSPs operate under legislation that supports long-term agricultural research of benefit to developing countries and the United States. This book defines a process by which knowledge from all relevant AID-supported programs could be integrated and applied to advance profitable farming systems that improve local conditions and contribute to environmental goals. It makes recommendations on the types of competitive grants that should be made available under a new program, institutional participation, content of research proposals, and administrative procedures.

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