## Contents

For	reword	
Ac	knowledgments	
Acı	ronyms and Abbreviationsis	
Exe	ecutive Summary	
Son	Sommaire executivexvii	
1.	Introduction	
	SMICT Study	
	Methodology of the Study	
	Countries in the Study	
	Structure of the Report	
2.	Curriculum Policies, Instructional Practices, and Assessment	
	General Trends in Curriculum Policy	
	Aims and Content of SMICT Education	
	Instructional Processes	
	Assessment	
	The Way Forward	
3.	School Context and Instructional Resources	
	Context in Which Resources for SMICT are Used	
	Instructional Resources	
	Cost of Instructional Resources	
	Optimizing Opportunities and Resources	
	Funding Science and ICT Resources	
	The Way Forward34	
4.	SMICT Teachers, Teacher Education and Teacher Support	
	SMICT Teachers	
	SMICT Teacher Education	
	Teacher Upgrading, Teacher Career Progression and Alternative Teacher Education Policies51	
	Teacher In-service Support and Development	
	Discussion	
	The Way Forward. 62	

5.	SMICT Education: Toward a Strategy for Development
	National Strategies in Development of SMICT Education
	Toward a Strategy for SMICT Education Development
	Curriculum Reform: The Need for Coherence
	Teacher Education and Teacher Support70
	Upscaling and Sustainability of Promising Practices
	Appendix A
	References
Ττ	ST OF TABLES
1.	Gross National Income for the Countries in SMICT Study, 2000
2.	HDI Rank for the Countries in SMICT Study, 2000
3.	Costs per Student in Various SMICT Countries, 2001
4.	Expenditure on Education
5.	Example of Two Days of a Timetable of a Typical Grade 10 (Junior Secondary) Learner's Timetable in South Africa
6.	Practical Work Cost Spectrum, Showing Examples of Typical Requirements 28
7.	Some Characteristic Figures on Computer Penetration
8.	Specific Recommendations for SMICT Curriculum
9.	Summary of Recommendations in Teacher Education
	·
	ST OF FIGURES
1.	The 10 Countries in the SMICT Study
2.	ICT Equipment Costs
3.	Strategy for Development of (SMICT) Education
4.	Curriculum Spider Web69
Li	ST OF BOXES
1.	Promising Practice—Life Science, A New Junior Science Subject
	in Junior Secondary Schools in Namibia14
2.	Promising Practice—Science Teacher Association of Nigeria (STAN) and Its Role in Science Curriculum Development
3.	Promising Practice—Science Resource Centres in Ghana as a Cost-reducing Measure in the Provision of Science and ICT Equipment to Schools31
4.	Promising Practice—SchoolNet Namibia: Affordable ICT Infrastructure
	for Schools in Namibia
5.	Promising Practice—The In-In-Out System of Teacher Education in Ghana 49
6.	Promising Practice—Science Education in Secondary Schools (SESS)
	Project in Tanzania
7.	Promising Practice—Educators' Network in South Africa