

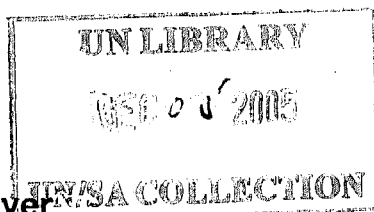
Harnessing the Potential of ICT for Education

A Multistakeholder Approach

*Proceedings from the Dublin Global Forum
of the United Nations ICT Task Force*

Edited by

Bonnie Bracey and Terry Culver



United Nations



**United Nations
Information
and
Communication
Technologies
Task Force**



CONTENTS

Message	v
KOFI ANNAN <i>Secretary-General, United Nations</i>	
Preface	vii
NOEL DEMPSEY T.D. <i>Minister For Communications, Marine And Natural Resources, Ireland</i>	
Introduction: Uniting People, Technology and Powerful Ideas for Learning	1
BONNIE BRACEY	
Information and Communication Technologies for Development	7
JEFFREY D. SACHS	
Part One: The Contribution of ICTs to Education Initiatives	17
ICT for Education: The Experience of India	19
M. MADHAVAN NAMBIAR	
Twenty-First Century Learners: A Need for Tech-Savvy Teachers	22
BONNIE BRACEY	
Encouraging the Effective and Sustainable Use of Information and Communication Technologies for Promoting Education and Development	32
TITILAYO AKINSANMI	
ICT in Education: A Practical Approach	41
ESTHER WACHIRA	
Moving Beyond the Digital Gap: Investing in the Young to Create New Learning and Socio-Economic Opportunities	46
CLOTILDE FONSECA	
Part Two: Harnessing the Potential of ICTs for Education	63
Section One: Maximizing the Complementary Strengths of Partnerships	65
GeSCI: ICTs for Global Education and Community Development	67
ASTRID DUF Borg	
Building a Multistakeholder Alliance for ICT in Education in Latin America	72
IRENE HARDY DE GÓMEZ	
STMicroelectronics Foundation and the Digital Unify	78
ELENA PISTORIO	
Young Voices on ICT for Education – Four Regional Insights	87
Introduction by JULIA CHRISTINA FAUTH	

1. <i>E-Education in Nigeria: Challenges and Prospects</i> DABESAKI MAC-IKEMENJIMA	89
2. <i>The Importance of Learning How to Learn</i> MIKE GRIFFIN	97
3. <i>Promoting Participation and Encouraging Empowerment – Examples of German ICT for Education Initiatives</i> GERALDINE DE BASTION	106
4. <i>Technology and Education In Brazil</i> DIOGO ANDRÉ DE ASSUMPCÃO	109
Giving Every Macedonian Student a Gateway to the World LEIGH SHAMBLIN	113
GLORIAD: An Advanced Network for Science and Education GREGORY COLE and NATASHA BULASHOVA	120
Integrated Water Concepts in the National Curriculum in Jordan MAYYADA ABU JABER and MONA GRIESER	124
ICT: A Powerful New Tool To Teach Literacy BONNIE BRACEY	137
Section Two: Access to ICTs in Education	141
Access to ICTs for Education RAHUL TONGIA	143
Innovation to Improve Access to ICT in Education MARTIN CURLEY	153
Section Three: Learning Strategies	159
“Against All Odds”: Reflections on the Challenges of SchoolNet Africa SHAFIKA ISAACS	161
Learning and Growing by Giving: Children as Agents of ICT EDNA APHEK	179
The Rising Tide of ICT Fluency in Education: “Power Users of ICT” JOYCE MALYN-SMITH	185
Engendering ICTs for Education CLAUDIA MORRELL and SOPHIA HUYER	191
Harnessing the Potential of ICT in Education in Latin America and the Caribbean DANILO PIAGGESI and JUAN CARLOS NAVARRO	199
Teaching through Mobile Technology Debuts in Schools in the Philippines SHERRY LYNN R. PERALTA	209

Section Four: Capacity-Building for Leaders, Management, Teachers and Administrators	213
ICT and Secondary Education: Changing Learning Patterns MANUEL ACEVEDO	215
Building the Developing Nations' Universities into the ICT for Development Strategy ROYAL D. COLLE	224
Connecting the Generations: Insights, Challenges and Opportunities DIANNE DAVIS	230
New Technologies and Social Change: Learning in the Global Cyberage BERTRAM C. BRUCE	239
Reaching Teachers Worldwide ALVARO H. GALVIS	253
On-Line Education Must Capitalize on Students' Unique Approaches to Learning MICHAEL ARNONE	256
Part Three: ICTs in Education: The Challenges Ahead	259
Education Empowered by ICT – The World's Best Investment? HUGH G. JAGGER	261
Is There an Even Bigger Digital Divide Just Around the Corner? The Challenges Of Internet2 VIC SUTTON	265
What Can You Learn from a Cell Phone? Almost Anything! MARC PRENSKY	271
Partnerships in Action STEPHEN NOLAN	280
Deploying ICTs in Schools: A Framework for Identifying and Assessing Technology Options, their Benefits, Feasibility and Total Cost of Ownership ALEX TWINOMUGISHA, J. PAUL CALLAN and KATE BUNWORTH	283
Annexes	293
Informal Summary of the Global Forum on a Multistakeholder Approach to Harnessing the Potential of Information and Communication Technologies for Education (Dublin, 13-14 April 2005)	295
Some Examples of General On-Line Resources for Teachers	317
Using On-Line Resources in the Classroom: The Example of Geography	319
About the Contributors	327