## **Index**

## A Association for Progressive Communications (APC) 206 Asian standard English 140 Australian Creative Resources Online active information transfer 181 (ACRO) 160 adult literacy automatic teller machine (ATM) 249 program 11 training 11 advanced placement (AP) 225 balanced scorecard approach 23, 24, 27, affordability 311 31, 36 agriculture 60 Bangladesh Advanced Education Research alienation 10 & Information Network (BAERIN) All Pakistan Women Association (APWA) 255 254 Bangladesh Research and Educational anglophone 223 Network (BERNET) 255 AP 225, 230 Bangladesh Telecommunications Regula-Asia-Pacific Advanced Network (APAN) tory Commission (BTRC) 248 BioBanking 320, 321, 326 Asia-Pacific Development Information bio Program (APDIP) 154 -patent 328 Asia-Pacific Network Information Centre -piracy 328 (APNIC) 255 blog 64, 132, 152 Asia-Pacific Program of Education for All bottom-up approach 197 (APPEAL) 201

Boulder Valley	colloquial usage 133
Internet Project (BVIP) 107	Colombo Stock Exchange (CSE) 275
School District (BVSD) 107	Commission for Science and Technology
broadband 155	(COSTECH) 206
advisory group (BAG) 169	Commission on Intellectual Property
communication technology 175	Rights (CIPR) 328
content 159	commons deed 158
infrastructure 149	communication network 2
Internet 47	community
network 151	-based
service 168	organizations (CBOs) 199
brokerage network 105, 106, 108	system 198
BSVD	autonomy 11
classroom 107	informatics (CI) 5, 6, 167
network 107	researchers 177
bureaucracy-driven network 11	information center (CIC) 253
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
business process outsourcing (BPO) 203,	comparative advantage 197, 245
251	compatibility 104
Business Registration and Licensing	competency-based economies 115
Agency (BRELA) 314	competitive
C	advantage 23, 27, 35, 105, 153
C	telecoms in Ireland 203
call center 203	complexity 104
capability 311	computer
carriage facilities (rainbow model layer) 5	-mediated learning 42
Catholic Organization for Relief and De-	assisted learning (CAL) 263
velopment (CORDAID) 313	kiosk 2
CEFE 115	literacy 266, 315
censorship and governmental monitoring	resource center (CRC) 262
69	systems policy project (CSPP) 128
Centre for Distance Learning and Innova-	computing services center (CSC) 269
tion (CDLI) 232, 233, 235	conflict
charitable trust 321, 329	cycle 57
Chinese Biodiversity Information System	prevention 56, 58, 59, 70
(CBIS) 324	transformation 68
Chinese ethnic (minzu) 330	connectivity 311
Christian Social Services Commission	contemporary globalized economy 259
	content/services (rainbow model layer) 5
(CSSC) 313	content management 152
civil society 199	contingent improvisation 104, 106, 114
organization (CSO) 199, 209	cooperative method of instruction 226
Clement and Shade's rainbow model 5	copyright 152, 156, 157, 158, 159
closed	cost efficiency 27
educational environment 232	Council for Information Technology (CIN-
model 222, 224	TEC) 271
cohesion network 105, 106, 112	Council for Scientific and Industrial Re-
colingual 140	search (CSIR) 206

Creative Commons (CC) 148, 155, 157,	diffusion 105
158, 159, 160	of innovation 104, 105
Creative Content e-Platform (UNESCO)	of old innovations 80
154	of recent innovations 80
cultural	of technology 107
expression 153	digital
innovation 151	archive 149
knowledge management system 148,	broadband
149	environment 149
materials 149	production environment 158
prefrences 136	collaboration 42
production 155	cultural production mode 149, 157
tradition 153	divide 39, 46, 60, 69, 166, 168,
curricular content 7	183, 199, 236, 255, 261, 266,
curriculum 4, 12, 45, 107	299
customer 23, 31, 33	literacy 102
needs 35	production technology 155
segments 23	subscriber line (DSL) 271
cyber	technology 62
cafe 130, 277	direct
-cell 236	inward dialling (DID) 270
-dissidents 64	outward dialling (DOD) 270
kiosks 43	dissemination 3, 17, 123
_	of information 63
D	of knowledge 129
data	of technology 3
-base 13	strategy 223
network 32	distance education 61
protection law 273	distribution-oriented strategy 309
transfer rate 151	domain name server (DNS) 270
deCODE database 326	_
dedicated Internet connection 262	${f E}$
dense closed network 105	e-business environment 272
Department of Computer Science and	e-commerce 60, 110, 111, 182, 250, 27
Engineering (CSE) 262	2, 273, 295
developing	in Ireland 203
countries 109, 241, 245, 283	e-Europe 290
societies 241	e-Europe+ 290, 292
development	e-Europe+ Action Plan 300
agencies 3	e-Europe 2005 Action Plan 291
groups 19	e-ForAll 201
of human skills 80	e-governance 61
project 3	e-government 61, 182, 250, 273, 283, 2
DFID 208	88, 291, 299
dial-up 262	e-health 67, 182, 291, 295
didi up 202	0 11001011 07, 102, 271, 273

e-knowledge 291	Five-Year Socioeconomic Development
e-learning 41, 44, 50, 51, 141, 222,	Plan (SEDP) 200
224, 232, 233, 234, 236, 265	focal awareness 125
e-mail 262, 272, 308	formation of enterprise network 115
e-management 295	frame relay (FR) 270
e-Sri Lanka 251, 273	francophone 223
e-student 233	
e-teacher 233, 234	G
e-teaching 232	garbage in, garbage out (GIGO) 127
e-transformation 292, 294, 300, 301	General Agreement of Trade in Services
Turkey Project 294	(GATS) 253
economic	` /
and regional development (ERD) 123	General Education Project II 266
development 184	general information technology (GIT) 263
education 2, 182	genetic
educational institution 9	biobanks 320, 321
effectiveness (brokerage) network 105	databases 325
electronic	sampling 321
-mediated learning 44	genomic biobank 321
commerce (e-commerce) 60	genre 152, 153
data interchange network 272	genuine progress indicator (GPI) 170, 171
empowerment 42	geographic information system (GIS)
English	106, 108, 109, 110
as a foreign language (EFL) 124	global
as a second language (L2) 130, 138	audience 132
enhanced communication 23	communication 133
eRunway 275	distribution networks 150
ethnic	English 122, 131, 132, 133, 135,
	139, 142
minorities (minzu) 321, 324	globalization 2, 5, 7, 80, 140
populations 321	globalizing world 243, 244
ethno	global
-political conflicts 58	knowledge economy 2
-political factors 65	language 131
European Mediterranean Partnership	market 60
(MEDA) 292	perspective 129
explicit knowledge 124, 125, 126, 127	Global Village Energy Partnership (GVEP)
External Degree of Bachelor of Informa-	206
tion Technology (BIT) 267	governance (rainbow model layer) 5
external	governmental transparency 61
linkages (brokerage networks) 108	grassroots 150
stakeholder 110	consultation 8, 10, 16, 17, 18
extranet 42	content development 8
F	creativity 150
Г	ICT applications 11
fiberoptic networks 261	interventions 58
finance 23, 31	involvement 14
,	

movements 61	improvement 41
production efforts 152	indicator 297
stakeholder participation 123	infrastructure 2, 40
support 107	initiative 200
gravity	in learning processes 42
equation 86, 89, 94	networks in rural regions 15
model 86	penetration 255
gross domestic product (GDP) 171	professionals 267, 268
guard dog strategies 268	Ikujiro Nonaka and Hirotaka Takeuchi 123
guide dog strategies 268	implementation strategy 269
	India's education and research network
Н	(ERNET-India) 255
L-101:0011-140	Indian Ministry of Environment and For-
half-life of knowledge 40	ests (MoEF) 106, 108
Han 323, 330, 332	indigenous
heterarchy 191	knowledge (IK) 128
hierarchy 191	people 321
high-quality multimedia production 151	InfoDev 206
higher education institution (HEI)	infomediary 200
23, 27, 32, 36	information and communication technol-
human	ogy (ICT) 40, 44, 51, 56, 123,
contact 68	166, 170, 180, 181, 187, 204,
development index (HDI) 170	208, 234, 242, 246, 260,
genomics projects 330	271, 288, 299, 308, 310, 321,
infrastructure 126	282, 283, 305, 306
resource development (HRD) 249, 250	Information and Communication Technol-
rights 62	ogy Agency (ICTA) 273
security 66	information
hypertext markup language (HTML)	infrastructure 203
136, 225	kiosk 8
I	literacy 315
1	literate person 316
Icelandic health sector database 325	management (IM) 41, 127 265, 267
ICT (see also information and communica-	networking 182
tion technology)	society 40, 71, 292
-based	system 104, 106
education 43	failure 103
learning 39, 41, 42, 43	technology (IT) 126, 288
mass learning 51	agreement (ITA-1) 253
-enhanced education 3	education resource centre (ITERC)
-mediated learning 42, 44	265
-related regional development	intervention 108
169, 172, 174	services (ITS) 251
center 22, 23, 32, 33, 36, 266	infrastructure 2, 150, 155, 159
champion 269	innovation 104, 105
development 3, 5, 202	Institute of Computer Technology (ICT)
implementation 201	269

instructional strategy 229	K
integrated	W 1 D : 120 140 141
digital services network (ISDN) 135	Kachru, Braj 139, 140, 141
library management system (ILMS)	kiosk 8, 61
112	knowledge
intellectual	-based economy 42, 43
property (IP) 157	-economy strategy 311
property right s (IPRs) 278	management (KM) 125,
inter-village connectivity and empower-	128, 137, 306
ment initiative (Thailand) 16	object 128
interim Poverty Reduction Strategy	L
(IPRSP) 204	L
internal	L1 (native speaker of English) 138, 140
competencies 105	L2 (English as a second language) 138,
process 23, 31, 34	140
International Centre for Integrated Moun-	labor force 23
tain Development (ICIMOD) 254	language preservation 16
international community 2	Lanka Educational Academic and Research
International Institute for Communication	Network (LEARN) 255, 262
and Development (IICD) 128, 313	learner-centered multimedia learning 45
internationalization 26, 131, 133, 137	learning 23, 31, 34, 42
international	by doing 123
monetary fund (IMF) 204	center 61
non-governmental organization (INGO)	resource center (LRC) 112
206	technologies 40
private leased circuit (IPLC) 270	least developed countries (LDCs) 182
public sector accounting standards	Liberation Tigers of Tamil Eelam (LTTE)
(IPSAS) 274	260
trade 80	lifelong learner 11
Internet 42, 44, 58, 61, 226, 277, 288	LISA 129, 131, 137
, 308	literacy/social facilitation (rainbow model
-accessible creative production 160	layer) 5
-based gateways 313	local
leased line (ILL) 270	adaptation 114
service provider (ISP) 248, 262	area network (LAN) 112, 224
intranet 42	communities 3, 18, 23, 106, 168
IP rights framework 150	condition 110
isochronal 289	connection 110
ITeS 252	context 106
J	contingency 110
J	government 110
John Keells	knowledge 3, 4
Computer Services (JKCS) 275	stakeholders 136
Holdings (JKH) 275	localization 122, 129, 130, 142
joint venture 32	Looking After Children Electronic System
	(LACES) 205

low-income communities 246	Development Strategy (NDS) 204 Examination Council of Tanzania 314
m -teacher 233, 234 -team 234, 235 M.S. Swaminathan Research Foundation 254 mailing list 61 managed private leased circuit (MPLC) 270, 271 management for development results (MfDR) 200 marginal communities 182 mathematical network theory 191 measurement managed companies 27 media environment 152 millennium development goal (MDG) 182 information technologies (MIT) 275 Ministry of Economic Development (MED) 202 of Education and Vocational Training (MEVT) 312 minorities 323, 330 minzu 332 classification system 332 mobile social capital 105 modernization 6	Examination Council of Tanzania 314 Growth and Poverty Eradication Strategy (NGPES) 200 ICT policy 306 Institute of Education (NIE) 265 Policy on Information Technology in School Education (NAPITSE) 262, 263 Poverty Eradication Strategy (NPES) 307 Science Foundation (NSF) 107 Strategy for Socioeconomic Development (NSSED) 204 Telecommunication Corporation (NTC) 249 native speaker 131 network analysis 104 closure 105 linkage 106, 110 project 23 new ICTs (nICTs) 56, 59, 64, 69, 70 New Partnership for Africa's Development (NEPAD) 205 Nielsen 134, 135, 136, 137 non-governmental organizations (NGOs) 61, 106, 115, 123, 204, 210, 300 Nonaka, Ikujiro 124, 125, 126, 127
Money Matters Institute, Inc 171 multi-national corporation (MNC) 243	nonnative speaker 131 nonprofit organization 60
multimedia super corridor (MSC) 203 multinational companies (MNCs) 324	0
multipurpose community telecenters (MCT) 199	observability (attribute of innovation) 104 ocalization 130 ODA 203
N-Form Organization 191 NAPITSE 264 National Biodiversity Information Center (NBIC) 325 Council for Science and Technology (NCST) 206 Scientific Research (NCSR) 206	OEMs 272 Okinawa Charter on Global Information Society 206 one-stop-shop (OSS) 200 open -source software licensing 157 copyright arrangements 156 educational environment 232 model 224 of teaching and learning 222

schools 237	public
source software 251	education 11
Open University of Sri Lanka (OUSL) 263	infrastructure 9
optical fiber network 261	television networks 152
Organization for Economic Coop-	pull principle 153
eration and Development (OECD)	push principle 153
183, 206, 244	
outlocation service 252	R
outsourcing service 252	
_	radio frequency identification technology
P	(RFID) 243
D 1.1	reconciliation 66, 67, 68
Pakistan	reconstruction 65, 66, 68
Educational Research Network (PERN)	regional
255	area 167
Telecommunication Company Limited	communities 181
(PTCL) 249	development (RD) 185
Pan Asia networking (PAN) 255	grouping 105
Parliamentary Online Information System	partnership program (RPP) 202
(POLIS) 314	planning 283
participatory design model 107	relative advantage 104
passive information transfer 181	remote communities 18
peacebuilding 68	rights and empowerment strategy 310
pedagogical	rural
functions 235	areas 61, 270, 306, 307
practices 4	centers 18
peer-to-peer linkage 108	community 8, 222
people-track approach 134	sector 268
personal digital aid (PDA) 242	S
physical infrastructure 243	5
pluricentricity 140	SAARC Agricultural Information Centre
points-of-presence (POP) 270	(SAIC) 254
post-secondary education 41	safety
poverty 309 monitoring master plan (PMMP) 300	network 105
monitoring master plan (PMMP) 309 reduction (PR) 181, 185, 201	driver 105, 108
reduction (FR) 181, 183, 201 reduction strategy article (PRSP) 200	Sarawak Biodiversity Center (SBC) 328
reduction strategy article (TKSI) 200 reduction strategy paper (PSRP) 309	Sarvodaya Shramadana movement 254
primary	scanner 22, 39, 102, 336
and secondary school 14	school
public education 11	district digital
private sector 285, 315	Intranet 231
entrepreneurs 300	intranet 223
problem-based activities 32	SchoolNet 224
production-oriented growth strategy 309	science parks 32
project management perspective 103	service/access provision (rainbow model
Prometeus 40	layer) 5

Sharing with Other People Network	STEM~Net 224, 225
(SWOPNet) 312	strategic
short-term milestones 35	initiative 35
Singlish 140	management 26
small and medium enterprise (SME) 200,	path 35
208, 249, 268, 272, 315	planning 24
Small Island Developing States Network	success 35
(SIDSNet) 205	theme 28
social	strategy map 23, 33, 34, 36
, technical, economic, environmental,	strong ties 105
and political (STEEP) 314	structural holes 105
capital 182, 198	subsidiary awareness 125
content 198	Sudan Virtual Engineering Library – Sus-
development 184	tainability Network (SudVEL-SKN)
network analysis 104, 105	13
societal development strategies 254	support
socio	network 106, 112
-demographic factors 168	infrastructure 112
-economic development 42, 180, 201,	sustainable
205, 253, 261	development
socioeconomic 59, 140, 168, 201	initiatives 14
development 42, 180, 201, 205, 253,	networking program (SDNP) 254
261	livelihoods approach 309
factors 285	Sveiby, Karl-Erik 124
gains 201	synergies 32
transformation 282	
software tools (rainbow model layer) 5	T
South Asian	togit knowledge 124 125 142 245
Association for Regional Cooperation	tacit knowledge 124, 125, 142, 245 Takeuchi, Hirotaka 124, 125, 126, 127
(SAARC) 254	
Network Operators Group (SANOG)	Tanzania Global Development Learning
255	Center (TGDLC) 315 technical
South Asia on the Human Development	
Index 250	infrastructure 295
Sri Lanka	literacy 2 techno-fetishism 7
Institute of Information Technology	technological
(SLIIT) 263	differences 91
Telecom (SLT) 261, 270, 271, 277	innovation 79, 80, 94
Telecommunications Authority (SLTA)	knowledge 182
271	technology diffusion program 106, 108
stakeholder 23, 106, 268, 276	techspeak 131
assessment model (SAM) 116	tele-learning (e-learning) 222
group 131	telecenter 1, 8, 15, 43, 199, 249, 260
network 116	telecommunication 168, 260, 261, 271
State Planning Organization (SPO) 284	bandwidth 274
state wide area network (SWAN) 253	infrastructure 277
stationary social capital 105	mnastructure 2//

Telecommunications Regulatory Commission of Sri Lanka (TRCSL) 262 telemedicine 67	UN Millennium Development Goals (MDGs) 305 urban area 307
tertiary educational sector 15 traditional	V
learning method 61 method of instruction 226 of communications and teaching 10 school 237 teaching 222 trainer-of-trainers model 107 transparent governance 57 transport infrastructure 94 trialability 104 trunk telecommunications network 261 Turkish National Information Main Plan (TU-	VEEM (Victorian E-Commerce Early Movers) 110 very small aperture terminal (VSAT) 248 village information kiosk 8 virtual classroom 42, 51 organization 23, 31 private network (VPNs) 270 Souk 128 teaching 222 Vista School District digital intranet 225, 230, 232, 233, 237 voice over IP (VoIP) 310
ENA) 294 Scientific Research Institute (TUBI-	W
TAK) 292 TZ-MDGs 307	weak ties 105
U	Wealth of Nations Triangle Index 171 Web 272
U.N. Millennium Development Goals (MDGs) 306  U.S. Agency for International Development (USAID) 108  U.S. Patent and Trademark Office (USPTO) 328  Uganda Business Information Network (UBIN) 200  UN-MDGs 307  underdeveloped countries 283  UNDP 203, 204  unemployment 322  UNESCO 206  United Nations Development Program (UNDP) 170  United Nations Educational, Scientific and Cultural Organisation (UNESCO) 205, 244  United Nations Institute for Training and	-based course 230 knowledge dissemination 136 learning 42 magazines 64 site 277, 288 WebCT 230 wiki 152 wireless application protocol (WAP) 273 World Summit on Sustainable Development (WSSD) 206 World Trade Organization (WTO) 253 World Wide Web (WWW) 44
Research (UNITAR) 154 university education 14	
·	