Index

A
Asian standard English 140
active information transfer 181
adult literacy
  program 11
  training 11
advanced placement (AP) 225
affordability 311
agriculture 60
alienation 10
All Pakistan Women Association (APWA) 254
anglophone 223
AP 225, 230
Asia-Pacific Advanced Network (APAN) 255
Asia-Pacific Development Information Program (APDIP) 154
Asia-Pacific Network Information Centre (APNIC) 255
Asia-Pacific Program of Education for All (APPEAL) 201
Association for Progressive Communications (APC) 206
Australian Creative Resources Online (ACRO) 160
automatic teller machine (ATM) 249
B
balanced scorecard approach 23, 24, 27, 31, 36
Bangladesh Advanced Education Research & Information Network (BAERIN) 255
Bangladesh Research and Educational Network (BERNET) 255
Bangladesh Telecommunications Regulatory Commission (BTRC) 248
BioBanking 320, 321, 326
bio
  -patent 328
  -piracy 328
blog 64, 132, 152
bottom-up approach 197
<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boulder Valley Internet Project (BVIP)</td>
<td>107</td>
</tr>
<tr>
<td>School District (BVSD)</td>
<td>107</td>
</tr>
<tr>
<td>broadband</td>
<td>155</td>
</tr>
<tr>
<td>advisory group (BAG)</td>
<td>169</td>
</tr>
<tr>
<td>communication technology</td>
<td>175</td>
</tr>
<tr>
<td>content</td>
<td>159</td>
</tr>
<tr>
<td>infrastructure</td>
<td>149</td>
</tr>
<tr>
<td>Internet</td>
<td>47</td>
</tr>
<tr>
<td>network</td>
<td>151</td>
</tr>
<tr>
<td>service</td>
<td>168</td>
</tr>
<tr>
<td>brokerage network</td>
<td>105, 106, 108</td>
</tr>
<tr>
<td>BSVD</td>
<td></td>
</tr>
<tr>
<td>classroom</td>
<td>107</td>
</tr>
<tr>
<td>network</td>
<td>107</td>
</tr>
<tr>
<td>bureaucracy-driven network</td>
<td>11</td>
</tr>
<tr>
<td>business process outsourcing (BPO)</td>
<td>203, 251</td>
</tr>
<tr>
<td>Business Registration and Licensing Agency (BRELA)</td>
<td>314</td>
</tr>
<tr>
<td>call center</td>
<td>203</td>
</tr>
<tr>
<td>capability</td>
<td>311</td>
</tr>
<tr>
<td>carriage facilities (rainbow model layer)</td>
<td>5</td>
</tr>
<tr>
<td>Catholic Organization for Relief and Development (CORDAID)</td>
<td>313</td>
</tr>
<tr>
<td>CEFE</td>
<td>115</td>
</tr>
<tr>
<td>censorship and governmental monitoring</td>
<td>69</td>
</tr>
<tr>
<td>Centre for Distance Learning and Innovation (CDLI)</td>
<td>232, 233, 235</td>
</tr>
<tr>
<td>charitable trust</td>
<td>321, 329</td>
</tr>
<tr>
<td>Chinese Biodiversity Information System (CBIS)</td>
<td>324</td>
</tr>
<tr>
<td>Chinese ethnic (minzu)</td>
<td>330</td>
</tr>
<tr>
<td>Christian Social Services Commission (CSSC)</td>
<td>313</td>
</tr>
<tr>
<td>civil society</td>
<td>199</td>
</tr>
<tr>
<td>organization (CSO)</td>
<td>199, 209</td>
</tr>
<tr>
<td>Clement and Shade’s rainbow model</td>
<td>5</td>
</tr>
<tr>
<td>closed</td>
<td></td>
</tr>
<tr>
<td>educational environment</td>
<td>232</td>
</tr>
<tr>
<td>model</td>
<td>222, 224</td>
</tr>
<tr>
<td>cohesion network</td>
<td>105, 106, 112</td>
</tr>
<tr>
<td>colingual</td>
<td>140</td>
</tr>
<tr>
<td>colloquial usage</td>
<td>133</td>
</tr>
<tr>
<td>Colombo Stock Exchange (CSE)</td>
<td>275</td>
</tr>
<tr>
<td>Commission for Science and Technology (COSTECH)</td>
<td>206</td>
</tr>
<tr>
<td>Commission on Intellectual Property Rights (CIPR)</td>
<td>328</td>
</tr>
<tr>
<td>common deed</td>
<td>158</td>
</tr>
<tr>
<td>communication network</td>
<td>2</td>
</tr>
<tr>
<td>community -based organizations (CBOs)</td>
<td>199</td>
</tr>
<tr>
<td>system</td>
<td>198</td>
</tr>
<tr>
<td>autonomy</td>
<td>11</td>
</tr>
<tr>
<td>informatics (CI)</td>
<td>5, 6, 167</td>
</tr>
<tr>
<td>researchers</td>
<td>177</td>
</tr>
<tr>
<td>information center (CIC)</td>
<td>253</td>
</tr>
<tr>
<td>comparative advantage</td>
<td>197, 245</td>
</tr>
<tr>
<td>compatibility</td>
<td>104</td>
</tr>
<tr>
<td>competency-based economies</td>
<td>115</td>
</tr>
<tr>
<td>competitive</td>
<td></td>
</tr>
<tr>
<td>advantage</td>
<td>23, 27, 35, 105, 153</td>
</tr>
<tr>
<td>telecoms in Ireland</td>
<td>203</td>
</tr>
<tr>
<td>complexity</td>
<td>104</td>
</tr>
<tr>
<td>computer</td>
<td></td>
</tr>
<tr>
<td>-mediated learning</td>
<td>42</td>
</tr>
<tr>
<td>assisted learning (CAL)</td>
<td>263</td>
</tr>
<tr>
<td>kiosk</td>
<td>2</td>
</tr>
<tr>
<td>literacy</td>
<td>266, 315</td>
</tr>
<tr>
<td>resource center (CRC)</td>
<td>262</td>
</tr>
<tr>
<td>systems policy project (CSPP)</td>
<td>128</td>
</tr>
<tr>
<td>computing services center (CSC)</td>
<td>269</td>
</tr>
<tr>
<td>conflict</td>
<td></td>
</tr>
<tr>
<td>cycle</td>
<td>57</td>
</tr>
<tr>
<td>prevention</td>
<td>56, 58, 59, 70</td>
</tr>
<tr>
<td>transformation</td>
<td>68</td>
</tr>
<tr>
<td>connectivity</td>
<td>311</td>
</tr>
<tr>
<td>contemporary globalized economy</td>
<td>259</td>
</tr>
<tr>
<td>content/services (rainbow model layer)</td>
<td>5</td>
</tr>
<tr>
<td>content management</td>
<td>152</td>
</tr>
<tr>
<td>contingent improvisation</td>
<td>104, 106, 114</td>
</tr>
<tr>
<td>cooperative method of instruction</td>
<td>226</td>
</tr>
<tr>
<td>copyright</td>
<td>152, 156, 157, 158, 159</td>
</tr>
<tr>
<td>cost efficiency</td>
<td>27</td>
</tr>
<tr>
<td>Council for Information Technology (CINETEC)</td>
<td>271</td>
</tr>
<tr>
<td>Council for Scientific and Industrial Research (CSIR)</td>
<td>206</td>
</tr>
</tbody>
</table>
Creative Commons (CC) 148, 155, 157, 158, 159, 160
Creative Content e-Platform (UNESCO) 154
cultural
expression 153
innovation 151
knowledge management system 148, 149
materials 149
preferences 136
production 155
tradition 153
curricular content 7
curriculum 4, 12, 45, 107
customer 23, 31, 33
needs 35
segments 23
cyber
cafe 130, 277
-cell 236
-dissidents 64
kiosks 43
diffusion 105
of innovation 104, 105
of old innovations 80
of recent innovations 80
of technology 107
digital
archive 149
broadband
environment 149
production environment 158
collaboration 42
cultural production mode 149, 157
divide 39, 46, 60, 69, 166, 168, 183, 199, 236, 255, 261, 266, 299
literacy 102
production technology 155
subscriber line (DSL) 271
technology 62
direct
inward dialling (DID) 270
outward dialling (DOD) 270
dissemination 3, 17, 123
of information 63
of knowledge 129
of technology 3
strategy 223
distance education 61
distribution-oriented strategy 309
domain name server (DNS) 270
deCODE database 326
dedicated Internet connection 262
dense closed network 105
Department of Computer Science and Engineering (CSE) 262
developing
countries 109, 241, 245, 283
societies 241
development
agencies 3
groups 19
of human skills 80
project 3
DFID 208
dial-up 262
development agencies 3
distribution-oriented strategy 309
Index 345

e-knowledge 291

e-learning 41, 44, 50, 51, 141, 222, 224, 232, 233, 234, 236, 265
e-mail 262, 272, 308
e-management 295
e-Sri Lanka 251, 273
e-student 233
e-teacher 233, 234
e-teaching 232
e-transformation 292, 294, 300, 301
  Turkey Project 294
economic
  and regional development (ERD) 123
development 184
education 2, 182
educational institution 9
effectiveness (brokerage) network 105
electronic
  -mediated learning 44
  commerce (e-commerce) 60
data interchange network 272
empowerment 42
English
  as a foreign language (EFL) 124
  as a second language (L2) 130, 138
enhanced communication 23
eRunway 275
ethnic
  minorities (minzu) 321, 324
  populations 321
ethno
  -political conflicts 58
  -political factors 65
European Mediterranean Partnership (MEDA) 292
explicit knowledge 124, 125, 126, 127
External Degree of Bachelor of Information Technology (BIT) 267
external
  linkages (brokerage networks) 108
  stakeholder 110
extranet 42

F

fiberoptic networks 261
finance 23, 31

Five-Year Socioeconomic Development Plan (SEDP) 200
focal awareness 125
formation of enterprise network 115
frame relay (FR) 270
francophone 223

G

garbage in, garbage out (GIGO) 127
General Agreement of Trade in Services (GATS) 253
General Education Project II 266
general information technology (GIT) 263
genetic
  biobanks 320, 321
databases 325
  sampling 321
genomic biobank 321
genre 152, 153
genuine progress indicator (GPI) 170, 171
geographic information system (GIS) 106, 108, 109, 110
global
  audience 132
  communication 133
distribution networks 150
English 122, 131, 132, 133, 135, 139, 142
globalization 2, 5, 7, 80, 140
globalizing world 243, 244
global
  knowledge economy 2
  language 131
  market 60
  perspective 129
Global Village Energy Partnership (GVEP) 206
governance (rainbow model layer) 5
governmental transparency 61
grassroots 150
consultation 8, 10, 16, 17, 18
content development 8
creativity 150
ICT applications 11
interventions 58
involvement 14

Copyright © 2007, Idea Group Inc. Copying or distributing in print or electronic forms without written permission of Idea Group Inc. is prohibited.
movements 61
production efforts 152
stakeholder participation 123
support 107

gravity
   equation 86, 89, 94
   model 86

gross domestic product (GDP) 171

guard dog strategies 268
guide dog strategies 268

H

half-life of knowledge 40
Han 323, 330, 332
heterarchy 191
hierarchy 191
high-quality multimedia production 151
higher education institution (HEI) 23, 27, 32, 36
human
   contact 68
   development index (HDI) 170
   genomics projects 330
   infrastructure 126
   resource development (HRD) 249, 250
   rights 62
   security 66
hypertext markup language (HTML) 136, 225

I

Icelandic health sector database 325
ICT (see also information and communication technology)
   -based
      education 43
      learning 39, 41, 42, 43
      mass learning 51
   -enhanced education 3
   -mediated learning 42, 44
   -related regional development 169, 172, 174
   center 22, 23, 32, 33, 36, 266
   champion 269
   development 3, 5, 202
   implementation 201
   improvement 41
   indicator 297
   infrastructure 2, 40
   initiative 200
   in learning processes 42
   networks in rural regions 15
   penetration 255
   professionals 267, 268
   Ikujiro Nonaka and Hirotaka Takeuchi 123
   implementation strategy 269
   India’s education and research network (ERNET-India) 255
   Indian Ministry of Environment and Forests (MoEF) 106, 108
   indigenous
      knowledge (IK) 128
      people 321
   InfoDev 206
   infomediary 200
   information and communication technology (ICT) 40, 44, 51, 56, 123,
      166, 170, 180, 181, 187, 204,
      208, 234, 242, 246, 260,
      271, 288, 299, 308, 310, 321,
      282, 283, 305, 306
   Information and Communication Technology Agency (ICTA) 273
   information
      infrastructure 203
      kiosk 8
      literacy 315
      literate person 316
      management (IM) 41, 127 265, 267
      networking 182
      society 40, 71, 292
      system 104, 106
      failure 103
      technology (IT) 126, 288
      agreement (ITA-1) 253
      education resource centre (ITERC) 265
      intervention 108
      services (ITS) 251
      infrastructure 2, 150, 155, 159
      innovation 104, 105
      Institute of Computer Technology (ICT) 269
instructional strategy 229

integrated
digital services network (ISDN) 135
library management system (ILMS) 112

intellectual
property (IP) 157
property rights (IPRs) 278

inter-village connectivity and empowerment initiative (Thailand) 16
interim Poverty Reduction Strategy (IPRSP) 204

internal
competencies 105
process 23, 31, 34

International Centre for Integrated Mountain Development (ICIMOD) 254
International Institute for Communication and Development (IICD) 128, 313
internationalization 26, 131, 133, 137
international
monetary fund (IMF) 204
non-governmental organization (INGO) 206
private leased circuit (IPLC) 270
public sector accounting standards (IPSAS) 274
trade 80
Internet 42, 44, 58, 61, 226, 277, 288, 308
-accessible creative production 160
-based gateways 313
leased line (ILL) 270
service provider (ISP) 248, 262

intranet 42
IP rights framework 150
ISOchronal 289
ITeS 252

K

Kachru, Braj 139, 140, 141
kiosk 8, 61
knowledge
-based economy 42, 43
economy strategy 311
management (KM) 125, 128, 137, 306
object 128

L

L1 (native speaker of English) 138, 140
L2 (English as a second language) 138, 140
labor force 23
language preservation 16
Lanka Educational Academic and Research Network (LEARN) 255, 262
learner-centered multimedia learning 45
learning 23, 31, 34, 42
by doing 123
center 61
resource center (LRC) 112
technologies 40
least developed countries (LDCs) 182
Liberation Tigers of Tamil Eelam (LTTE) 260
lifelong learner 11
LISA 129, 131, 137
literacy/social facilitation (rainbow model layer) 5
local
adaptation 114
area network (LAN) 112, 224
communities 3, 18, 23, 106, 168
condition 110
connection 110
context 106
contingency 110
government 110
knowledge 3, 4
stakeholders 136
localization 122, 129, 130, 142
Looking After Children Electronic System (LACES) 205

J

John Keells
Computer Services (JKCS) 275
Holdings (JKH) 275
joint venture 32
Index

low-income communities 246

M

-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
devolution 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
Money Matters Institute, Inc 171
multi-national corporation (MNC) 243
multimedia super corridor (MSC) 203
multinational companies (MNCs) 324
multipurpose community telecenters (MCT) 199

N

N-Form Organization 191
NAPITSE 264
National
 Biodiversity Information Center (NBIC) 325
Council for
 Science and Technology (NCST) 206
Scientific Research (NCSR) 206
Development Strategy (NDS) 204
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
nonnative speaker 131
nonprofit organization 60

O

observability (attribute of innovation) 104
ocalization 130
OODA 203
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
source software 251
Open University of Sri Lanka (OUSL) 263
optical fiber network 261
Organization for Economic Coop-
eration and Development (OECD)
183, 206, 244
outsourcing service 252
outsourcing service 252

P

Pakistan
Educational Research Network (PERN)
255
Telecommunication Company Limited
(PCL) 249
Pan Asia networking (PAN) 255
Parliamentary Online Information System
(POLIS) 314
participatory design model 107
passive information transfer 181
peacebuilding 68
pedagogical
functions 235
practices 4
peer-to-peer linkage 108
people-track approach 134
personal digital aid (PDA) 242
physical infrastructure 243
pluricentricity 140
points-of-presence (POP) 270
post-secondary education 41
poverty 309
monitoring master plan (PMMP) 309
reduction (PR) 181, 185, 201
reduction strategy article (PRSP) 200
reduction strategy paper (PSRP) 309
primary
and secondary school 14
public education 11
private sector 285, 315
entrepreneurs 300
problem-based activities 32
production-oriented growth strategy 309
project management perspective 103
Prometeus 40

public
education 11
infrastructure 9
television networks 152
pull principle 153
push principle 153

R
radio frequency identification technology
(RFID) 243
reconciliation 66, 67, 68
reconstruction 65, 66, 68
regional
area 167
communities 181
development (RD) 185
grouping 105
partnership program (RPP) 202
planning 283
relative advantage 104
remote communities 18
rights and empowerment strategy 310
rural
areas 61, 270, 306, 307
centers 18
community 8, 222
sector 268

S
SAARC Agricultural Information Centre
(SAIC) 254
safety
network 105
driver 105, 108
Sarawak Biodiversity Center (SBC) 328
Sarvodaya Shramadana movement 254
scanner 22, 39, 102, 336
school
district digital
Intranet 231
intranet 223
SchoolNet 224
science parks 32
service/access provision (rainbow model
layer) 5
Sharing with Other People Network (SWOPNet) 312
short-term milestones 35
Singlish 140
small and medium enterprise (SME) 200, 208, 249, 268, 272, 315
Small Island Developing States Network (SIDSNet) 205
social
, technical, economic, environmental, and political (STEEP) 314
capital 182, 198
content 198
development 184
network analysis 104, 105
societal development strategies 254
socio
demographic factors 168
economic development 42, 180, 201, 205, 253, 261
socioeconomic 59, 140, 168, 201
development 42, 180, 201, 205, 253, 261
factors 285
gains 201
transformation 282
software tools (rainbow model layer) 5
South Asian
Association for Regional Cooperation (SAARC) 254
Network Operators Group (SANOG) 255
South Asia on the Human Development Index 250
Sri Lanka
Institute of Information Technology (SLIIT) 263
Telecom (SLT) 261, 270, 271, 277
Telecommunications Authority (SLTA) 271
stakeholder 23, 106, 268, 276
assessment model (SAM) 116
group 131
network 116
State Planning Organization (SPO) 284
state wide area network (SWAN) 253
stationary social capital 105
STEM~Net 224, 225
strategic
initiative 35
management 26
path 35
planning 24
success 35
theme 28
strategy map 23, 33, 34, 36
strong ties 105
structural holes 105
subsidiary awareness 125
Sudan Virtual Engineering Library – Sustainability Network (SudVEL-SKN) 13
support
network 106, 112
infrastructure 112
sustainable
development
initiatives 14
networking program (SDNP) 254
livelihoods approach 309
Sveiby, Karl-Erik 124
synergies 32
T
tacit knowledge 124, 125, 142, 245
Takeuchi, Hirotaka 124, 125, 126, 127
Tanzania Global Development Learning Center (TGDLC) 315
technical
infrastructure 295
literacy 2
techo-fetishism 7
technological
differences 91
innovation 79, 80, 94
knowledge 182
technology diffusion program 106, 108
techspeck 131
tele-learning (e-learning) 222
telecenter 1, 8, 15, 43, 199, 249, 260
telecommunication 168, 260, 261, 271
bandwidth 274
infrastructure 277
Telecommunications Regulatory Commission of Sri Lanka (TRCSL) 262

telemedicine 67
tertiary educational sector 15

traditional
learning method 61
method of instruction 226
of communications and teaching 10
school 237

trainer-of-trainers model 107
transparent governance 57
transport infrastructure 94
trialability 104

trunk telecommunications network 261

Turkish
National Information Main Plan (TUNEA) 294
Scientific Research Institute (TUBITAK) 292

TZ-MDGs 307

U

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 Research (UNITAR) 154
university education 14

UN Millennium Development Goals (MDGs) 305

urban area 307

V

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


voice over IP (VoIP) 310

W

weak ties 105

Wealth of Nations Triangle Index 171
Web 272

-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