

Index

A

- ACNielsen NetWatch 122
- Advanced Info Services System Company (AIS) 204
- ASEAN Economic Ministers Meeting (AEMM) 69
- ASEAN Free Trade Area (AFTA) 9, 68, 107, 173
- ASEAN Information Infrastructure (AII) 9, 133, 166, 167
- ASEAN Investment Area (AIA) 9, 162, 173
- ASEAN School Network 133
- ASEAN-10 basic statistics on social and economic variables 165
- ASEANWorld master portal 133
- Asia and Pacific Centre for Transfer of Technology (APCTT) 169
- Asia-Pacific Economic Co-operation (APEC) 107
- Asian financial crisis 18, 44, 69

B

- Bangalore Agenda Task Force 312
- Bangalore versus Silicon Valley 309
- Berne Convention 230
- borderless marketing 18, 135
- build-to-forecast 275

- build-to-order 275
- build-transfer-operate (BTO) 204, 212
- businesses-academia-government interaction 179

C

- cable subscription 122
- Carnegie Centre for Software Engineering at Bangal 312
- cellular phone penetration 63
- cellular subscribers 125
- Centre for International Co-operation in Computerization (CICC) 169
- changing of mindset 81
- China Internet Network Information Centre 127
- City of the Future 297
- Civil Service Computerization Programme (CSCP) 155
- Communications Authority of Thailand (CAT) 10, 135, 202, 219
- communications infrastructure 117
- communications network sectors 49
- Computer Crime Act 11
- Concept Request for Proposals (CRFP) 183
- configuration-to-order 275
- consumer electronics 53, 55

- copyright protection 7, 142, 183, 229, 230, 235
- cross-country harmonization 141
- customization to suit preferences versus standardization 138
- cyber laws 13, 140, 160, 179, 180, 183, 185
- CyberCare 192
- Cyberjaya 179, 185, 186, 187
- Cyberport 181
- D**
- Data Protection Act 11
- DeLong's Law 144
- demand-supply human resource gap 99
- Department of Post and Telegraph (DPT) 203
- deregulation of the communications infrastructure 65
- diffusion of innovations 16
- digital convergence 49
- digital divide 3, 4, 6, 9, 11, 17, 23, 28, 31, 33, 43, 70, 72, 139, 166, 170, 171, 188, 191, 192, 217, 233, 243, 247
- digital signatures 13, 183
- E**
- E*Trade 136
- e-ASEAN Framework Agreement 9, 17, 133, 164
- e-ASEAN initiative 70
- e-ASEAN, potential benefits of 168
- e-ASEAN project 12
- e-ASEAN Task Force 12, 70, 132, 133, 140, 142, 164
- e-cheques 129
- e-commerce 4, 7, 10, 12, 73, 74, 112, 116, 118, 123, 131, 132, 135, 136, 137, 138, 140, 141, 142, 156, 160, 167, 169, 185, 188, 205, 208, 209, 217, 218, 219, 222, 223, 225, 229, 231, 257, 260, 316
- E-Commerce Act 135
- e-commerce code 13
- e-commerce matrix 114
- e-commerce readiness 28, 31, 33
- e-filing 159
- e-fulfilment 141
- e-government 6, 135
- e-Government Action Plan 159
- e-procurement 113, 139, 143, 187, 188
- e-readiness 5, 65
- e-services 187
- e-Thailand 10
- eCitizen Centre 134
- eCitizen website (Singapore) 142, 159
- Economic Commission for Latin America and the Caribbean (ECLAC) 306
- Economic Creativity Index (ECI) 174
- Economic Development Board (EDB) 155
- Economic Planning Unit (EPU) 189
- electronic data interchange (EDI) 9, 39, 112, 113, 136, 155
- electronic infrastructure 84, 85, 105
- electronic payment 141, 142
- electronic transactions 112, 132
- Electronics Transactions Act 11
- Export-Promotion Industrial Park (India) 311
- F**
- flagship applications 9, 18, 180, 181, 182, 184, 187, 188, 190, 192
- flexible specialization thesis 281
- Forrester Research 113, 130
- Framework for Global Electronic Commerce 219, 221, 222
- G**
- GATS modes of supply of services 227
- GeBIZ website 134
- General Agreement on Tariffs and Trade (GATT) 225
- General Agreement on Trade in Services (GATS) 216, 225
- general-purpose technologies (GPT) 1, 16
- GINet 209
- global information infrastructure (GII) 163, 167, 169
- global organizational networks 150, 152

- global production networks 37
 global supply chain 143
 globalization 23, 38, 80, 177
 GO-ASP Partner Programme (Go-APP) 161
 Government Information Network (GINet) 10, 207
 Government Information System Plan (GISP), 135, 145. *See also* Philippine Government Online
 Greenspan, Alan 22
 gross national product and personal computers 104
 Group of Eight (G-8) 240, 264
- H**
- harmonization of e-commerce-related commercial law 8
 high-speed data flows 66
 high-tech exports of ASEAN-5 103
 high-tech human capital indicators 93
 high-technology exports 101
 home PC ownership 60
 households in Asia with cable 126
 human capital endowment 99, 105, 106
 human development index (HDI) 245, 268
- I**
- ICT, impact on social development 3, 79
 ICT industry development and diffusion 48
 ICT infrastructure in economic development 6, 76, 248
 ICT market-place 133
 ICT penetration indicators 62
 ICT physical infrastructure 81
 ICT production and diffusion 51, 64
 ICT revolution 51
 ICT skilled manpower 81
 ICT21 Masterplan 134
 Indian software companies 300, 301
 Indian software exports 301
 Indian software industry 298, 301, 302
 India's IT industry 299
 info-structure 10, 81, 178, 181, 185, 187
 info-structure indicators 185
 Infocomm 21 (Singapore) 84, 157, 159, 161, 181
 Infocomm Development Authority (IDA) 157
 infomediaries 136
 Information Age 180
 information appliances (IAs) 279
 information content sectors 49
 information economy 51
 information infrastructure 18, 27, 39
 information revolution 150
 Information Society Index (ISI) 17, 157
 Information Technology Agreement (ITA) 170
 informatization of society 4
 informatization sector 49, 241, 242
 Infrastructure for Electronic Identification (IEI) 156
 Inland Revenue Authority of Singapore (IRAS) 159
 innovation-generating investment 85
 institutional framework 258
 instrument of democratization 80
 integrated global organizational networks 148, 150
 Integrated Land Use (ILUS) 155
 integrated services digital network (ISDN) 155
 integrating related technologies 147
 intellectual property laws 183
 intellectual property rights 3, 8, 79, 184, 229
 "Intelligent" Island Vision 153
 International Advisory Panel (IAP) 183
 International Data Corporation (IDC) 111
 Internet bandwidth 258, 259
 Internet Corporation for Assigned Names and Number (ICANN) 3, 231, 237
 Internet dial-up accounts 124
 Internet domain hosts registered, number of 63
 Internet hosts 121
 Internet penetration in ASEAN-5 87, 95
 Internet readiness 28, 31, 33

- Internet service providers (ISPs) 10, 219
investment incentives for R&D 65
IT adoption 25, 36, 37, 44, 93
IT and economic performance 22, 26, 85
IT and productivity 28
IT and telecommunication indicators 98
IT as productivity tool 39
IT capacity-building 84, 99
IT capital 45
IT hub, formal 173
IT industry in India 299, 319
IT infrastructure 105, 106, 107, 154
IT investment 25, 45
IT investment, factors driving 27
IT investment, returns of 45
IT investment and economic performance 27
IT literacy 85
IT and economic performance 23
IT test-bed, regional 173
IT use, level of 35
IT-led innovations 24
IT2000 Masterplan 133, 156
IT2000 report 156
IT21 Plan 145
- J**
just-in-time system 278
- K**
Knowledge Workers Exchange (KWX) 189
knowledge workers, or k-workers 188, 193
knowledge-based economy 6, 14, 159, 178, 188, 189, 193, 239, 241, 255, 262, 264, 269, 270, 272, 273, 289
knowledge-based industries 51
knowledge-driven economy 177
- L**
legal and regulatory framework 81, 263
Local Enterprise e-Commerce Programme (Singapore) 161
Local Industry Upgrading Programme (LIUP) 156
- M**
McKinsey report 18
Mesdaq 190, 194
Metcalf's Law 112, 144
Ministry of Communication and Information Technology (MCIT) 160
Ministry of Transport and Communication (MOTC) 203
multi-factor productivity growth 24
multimedia applications 183, 184
multimedia development applications 181
Multimedia Development Corporation (MDC) 10, 179
multimedia environment applications 181
Multimedia Super Corridor (MSC) 9, 10, 18, 84, 106, 135, 144, 178, 179, 180, 185, 186, 192, 193, 244
multiplier effect 42
Mutual Recognition Agreements (MRA) 133
- N**
National Computer Board (Singapore) 153, 156
National Computerization Plan (Singapore) 153
National Electronics and Computer Technology Centre (NECTEC) 10, 201, 207, 213
National Information Infrastructure (NII) 18, 856
National Information Technology Committee (Thailand) 237
National Information Technology Council (Malaysia) 191
National IT Plan (Singapore) 155
National Science and Technology Development Agency (Thailand) 202, 213
network effects 24, 31
network externalities 3, 16, 23, 24, 162, 173, 174
Network for Electronic Transfers (NETS) 129

- network infrastructures 51
 new economy 22, 24, 43, 72
 nimbleness to adapt 147
 non-tariff barriers 66
 Nua Internet Surveys 111, 119, 123
 Nusantara 21 (Indonesia) 18
- O**
 official development assistance (ODA) 264
 One-Stop Change of Address Reporting Services (OSCARS) 155
 openness to foreign talent 65
 optimized distribution model (ODM) 275
 Organization for Economic Co-operation and Development (OECD) 112, 202, 223
 original design manufacturing (ODM) 18
 original equipment manufacturing (OEM) 18, 278
 original idea manufacturing (OIM) 18
 own brand manufacturing (OBM) 18
- P**
 patents 103, 231, 232, 236, 290
 PC penetration 87, 96, 107, 140, 142
 PC penetration and GNP per capita in ASEAN 97, 105
 Philippine Government Online 135. *See also* Government Information System Plan (GISP)
 primary school enrolment in ASEAN 89
 production close to use 4, 41, 44
 productivity paradox 3, 16, 23, 24, 26, 42, 43, 149, 174
 public Internet kiosks 140, 143
 Putrajaya 179, 185
- R**
 R&D expenditure and manpower in Singapore 163
 regional network nodes 152
 regional payments mechanism 133
 regional trade network 133
 Roach, Steven 25
- S**
 Sacher Report 113, 130, 140
 School Links 155
 SchoolNet (Thailand) 10, 207, 209
 Schumpeter 99
 science and technology infrastructure 107
 Science Hub (Singapore) 162
 scientists and engineers in R&D in ASEAN-5 94, 107
 secondary school enrolment in ASEAN 90
 Secure Electronic Transaction (SET) 127, 144, 167
 Secure Socket Layer (SSL) Survey 119, 122
 semiconductor wafer-fabrication 55
 Seoul Declaration on the Asia-Pacific Information 163
 Silicon Valley of India 297
 Singapore Civil Service Computerization Programme (CSCP) 175
 Singapore IT Hub 151
 Singapore ONE (One Network for Everyone) network 133, 156, 158, 181
 Singapore's IT strategy 153
 social and political impacts of ICT 71
 Software Development Diamond 13, 308, 315, 318
 Software Park (Thailand) 10, 200, 207, 209, 212
 Software Technology Park (India) 303, 304
 Solow, Robert 25
 South East Asia Regional Computer Confederation (SEARCC) 169
- T**
 Taiwan Semiconductor Manufacturing Company (TSMC) 283
 taxation, destination-based 223
 taxation, origin-based 223
 technological progress, exogenous 2
 technology, impact on economic growth 2
 technology, impact on productivity growth 3

- Technology Park in Bangalore 302
 - technology standards 23
 - technology transfer 65
 - Technopreneurship 21 (T21) 162
 - Technopreneurship Investment Fund (TIF) 162
 - technological progress, endogenous 2
 - TelecomAsia Corporation PCL (TA) 204
 - telehealth 187, 188
 - telemedicine 135, 183
 - telephone connection density 122
 - Telephone Organization of Thailand (TOT) 10, 202
 - tertiary education enrolment in ASEAN, 91
 - Thai Dot.Com 209
 - Thai Telephone and Telecommunications Private Company Limited (TT&T) 204
 - Thailand Development Research Institute (TDRI) 202
 - "The Net Imperative" 111
 - time-to-market 39
 - Total Access Communications Public Company (TAC) 204
 - Trade-Related Intellectual Property Rights (TRIPS) 230
 - trademarks 235
 - trans-border transactions 141
 - turnkey projects 301
- U**
- UNCITRAL E-Commerce Model Law 8, 133
 - United Nations Commission on International Trade Law (UNCITRAL) 132, 210, 229
 - United Nations Conference on Trade and Development (UNCTAD) 223
 - United Nations Development Program (UNDP) 189
 - United Nations Economics and Social Commission for Asia and the Pacific (UNESCAP) 169
 - Universal Service Program (USP) 72
- V**
- Verdoorn law 108
 - Vietnam Posts and Telecommunications (VNPT) 135
- W**
- WIPO Copyright Treaty 235
 - World Competitiveness Report 157
 - World Economic Forum (WEF) 171
 - World Intellectual Property Organization (WIPO) Copyright Treaty 230
 - World Trade Organization (WTO) 107, 170, 200, 222
 - World Wide Web Consortium (W3C) 3