Index

A

Adjusted Use Case Points (AUCP) 131, 134, 135
AGENDA 21 7
age-related macular degeneration (AMD) 275
ambient assisted living (AAL) 277, 281
Annual Activity Report 178, 190
annual performance program 178
APNG (Asia Pacific Networking Group) 87
asynchronous 238, 244, 246, 249, 256
asynchronous approach 238
Asynchronous Javascript and XML (AJAX) 285, 300
average actor 132
average participant 136

B

backfire method 129
Bali Strategic Plan (BSP) 230, 257
Bangladesh Institute of Development Studies (BIDS) 8, 9, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 29, 30
Bangladesh Public Administrative Training Centre (BPATC) 22, 23
Bangladesh Red Crescent Society, BDRCS 17, 20
behaviourist/objectivist approach 239
best-estimated value 123
Bharat Operating System Solutions (BOSS) 41
bio-diversity 4
BIT (Bangladesh Institute of Technology) 21
BORM method (Business Object Relation Modeling) 117, 135, 136, 137, 139, 145, 146
BORM Points 117, 135, 136, 137, 138, 139, 140, 145
brainstorming 244, 246
bricks-and-mortar 211
bud 137
budget figures 174
budgets 174, 176, 181
business constellations 284
business diagrams 135, 136, 137
business networks 284

C

CAPACITY 21 7
capacity building 7, 29, 59, 74
Capacity Building Working Group (CBWG) 234, 235
career advancement 258
CASE tool 140
central government 203, 204
Cfsu (COSMICS Functional size unit) 128, 129
chargeable income tax 58
chief executive officers (CEO) 260, 265, 271
chief information officers (CIO) 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272
Chipsl 129
citizen complaints 193
citizen concerns 211, 214
citizen id number 203
citizen interface 35, 37, 44, 45, 54, 56
citizen needs 36, 54
citizen participation 214
citizen relationship management (CRM) 211, 213, 214
citizen satisfaction 202
civil safety-sector 108, 109, 113, 114
civil servants 83, 174
civil society organizations (CSOs) 7, 22
CKR-based CRM system 211
clicks-and-mortar 211
Climate change 236
clinic module 217, 218
Code of Good Practices on Fiscal Transparency 173
coherent system 220
Collaborating Centers (CC) 231, 233
collaboration 230, 234, 236, 237, 253, 257
Co-Location 110, 112, 116
colour blindness 275
combined assessment, 59
commercial projects 117
Committee on E-Democracy of the Council of Europe (CAHDE) 286, 287, 300
common network 210
common service centers (CSC) 35, 38, 42, 43, 44, 51
Commonwealth Governments 261
Commonwealth Parliaments 261
Communications and Public Information (DCPI) 230
community building 2, 34
community development 1, 2, 3, 4, 6, 30, 33
community informatics 30, 33
community knowledge records (CKRs) 207, 211, 219, 220
Community of Practice (COP) 237, 244, 251
community participation 22, 27, 28, 30
Community Platform 236, 237, 249, 250, 252, 253, 254, 257
community practices 1, 2, 3, 5, 6, 8, 12, 16, 17, 22, 27, 29, 30, 33, 34
comparability 178
compensation demands 196
Complaint 192, 205, 206
Complaint Handling 206
complaint line 193, 194, 195, 197, 198, 203
complaint office 192
complaint publication process 199
Complaint Solution Platform 192, 206
complex actor 132
Complexity 117, 118, 130, 131, 139, 146, 147
complexity estimation 117, 119, 124, 131, 133, 135, 139, 146
Complexity of Functionality 131, 147
complex participant 136
comprehensibility 178
comprehensiveness 178
connected entity 209
Connectivism 239, 255
connectivity 210, 216, 217, 219, 220
COnstructive COst Model (COCOMO) 117, 140, 141, 142, 143
customer complaints 193, 194, 197, 206
Cyber Cafes 84
Cyber Korea 21 84, 94, 103
cyber-security 84
cyberspace 89, 98, 278

data element types (DET’s) 126, 127
debt 175, 179
decentralization 84, 87
demand-driven service 35
Department of Early Warning (DEWA) 228, 229, 230, 231, 233, 234, 235, 236, 237, 238, 240, 241, 247, 248, 249, 250, 251, 252, 253, 254
Department of Electronics (DOE) 36
development projects 117
Digital Access Index (DAE) 81
digital divide 80, 185
disadvantaged communities 3, 33
Dissatisfaction 192, 206
document-info 178
Dutch emergency response sector 107, 109
Dutch safety-sector 107

E

ease of use
e-business 273, 276
e-citizenship 202
e-commerce 13, 273
e-complaint 192, 193, 194, 195, 198, 202, 203, 204, 206
economic development 79, 82, 92, 172
Economist Intelligence Unit (EIU) 81, 82, 84, 91
ecosystem 3, 4
e-democracy 185, 275, 282, 283, 284, 286, 287, 299, 300, 302
eFactor 134, 139
Effort 117, 135, 144, 145, 146, 147
e-filing 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78,
e-finance 202
e-government 1, 2, 3, 4, 5, 12, 26, 27, 28, 29, 30, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 107, 108, 171, 172, 177, 183, 184, 185, 186, 192, 193, 194, 201, 202, 203, 204, 206, 227, 228, 237, 254, 273
E-Governance 167
e-government at the grass roots 1, 3
e-government framework 1, 3
e-government model 192
e-government readiness index 82
e-government system 1, 4, 5
e-government flagships 60
e-government programmes 30
e-government structure 1, 2
E-government technologies 171
E-Gram 47, 48, 51, 53
e-health 208, 211, 212, 213, 216, 217, 219, 220, 207
e-health provision 207, 219
e-Korea 79, 80, 81, 84, 85, 86, 88, 91, 96, 104
e-learning 228, 230, 236, 237, 238, 239, 240, 241, 242, 244, 246, 247, 248, 249, 250, 251, 252, 253, 254, 256, 257
e-learning programmes 83
electronic communication 219
electronic governance (e-governance) 207, 208, 211, 213, 214, 220, 221, 224
Electronic Government initiative 59
electronic healthcare services 221
electronic health (or e-health) records (EHR) 207, 212
electronic medical records 212
electronic public services 208
electronic record keeping 212, 216
Electronic Services Delivery (eServices) 60
e-Macau initiative 208, 210
e-Macau Project 208, 209
emergency response organizations 108, 109, 113
emergency response rooms (ERRs) 107, 108, 109, 110, 111, 112, 113, 114, 116
emerging environmental threats 230, 231
environmental assessment 227, 228, 232, 233, 234, 236, 254, 255, 256
environmental change 228, 231, 233
environmental decisions 254
environmental degradation 82
Environmental Law and Conventions (DELC) 230
Environmental Policy Implementation (DEPI) 230
environmental resources 228, 237
Environmental Sustainability 257
equitable resource distribution framework 84
e-readiness 38, 39, 42, 43, 48, 52, 81, 82
ERR ITs 108
error rate 144
e-services 282, 283, 284, 286, 289, 290, 295, 298, 299, 302
e-Sri Lanka 79, 80, 81, 82, 83, 88, 91, 93, 94, 95
estimation uncertainty 123
E-Syariah and Electronic Labour Exchange (ELX) 60
e-tax 202, 203
e-transformation 183
e-Transformation Turkey Project 2005 Action Plan 155, 164
e-Transformation Turkey Project Short Term Action Plan: 2003-2004 155
EuroParl 286
European Network of Living Labs (ENoLL) 283, 300
expert estimations 117, 119, 122, 123, 124, 139, 144, 147
expert opinions 122
expert qualification 122
exploitations 196
extended enterprises 284
External Inputs (EI) 125, 126, 130
External Inquiry (EQ) 125, 126, 130
External Interface Files (EIF) 125, 126, 127, 130
External Outputs (EO) 125, 126, 130

F

face-to-face (F2F) 236, 238, 239, 244, 246, 247, 248, 249, 250, 251, 252, 253
facilitating conditions 57, 64, 66, 68, 69, 70, 71, 72, 73, 74
feedback mechanism 214, 215
files updated or referenced (FTR’s) 126
financial crises 172, 173, 175
financial statistics 176
fiscal decentralization 177
fiscal information 171, 172, 173, 174, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 190, 191
fiscal transparency 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 184, 185, 186, 187, 188, 190, 191
Fiscal Transparency Index (FTI) 177, 178, 180, 181, 182, 190
Five Year Plans 40
FLOSS 154, 163
FOSS-aware 159
FP 125, 127, 128, 129, 130
Framework Act on Informatization Promotion 84
free and open source software (FOSS) 148, 149, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 167, 168, 169, 170
Free Software Foundation 152, 153
FTR 126, 127
Functional User Requirement (FUR) 126, 128
Function Point logic 129
Function Points Analysis 124, 125, 126, 129, 130, 145, 147
Function Points (FP) 128
Function Point Workbench 129
fuzzy approach 123
fuzzy expert estimations 124
fuzzy intervals 123, 124
Fuzzy logic 123
fuzzy number operations 123, 124
fuzzy numbers 123
fuzzy set 123, 124

G

G2C relations 114
gender effect 62, 65
Gender Equality 257
Gender Equity 257
General Council/Global Ministerial Environment Forum (GC/GMEF) 229, 230
Generic Office Environment (GOE) 60
Geographic Information Systems (GIS) 109, 110, 112, 113, 116
global communication network 193
global environmental governance 228
Global Environmental Outlook (GEO) 227, 228, 231, 232, 233, 234, 235, 236, 248, 249, 250
Global Environment Facility (GEF) coordination. 230
Global Information Society 86, 99  
global village 79, 80  
GMS 109, 110, 111, 112, 113, 114, 116  
good governance 202  
governance system 79, 82, 95  
Governing Council (GC) 229, 230, 231, 255, 257  
government-citizen management 60  
Government departments 258, 261  
government infrastructure 1  
government readiness 39  
government structure 1, 2, 3, 33  
government systems 35, 38, 43  
government-to-citizen interactions 209  
Grant No.2C06004 118, 144  
Grant No. MSM 6046070904 118, 144  
grass roots 117, 118, 144, 148, 149, 162, 172, 186, 221  
grass roots communities 82, 87, 88, 90, 95  
grass roots e-governance 87, 117  
grass roots governance 79, 87  
Gross Domestic Product (GDP) 184  

H  
hackers 151, 157  
handicapped people 276, 277  
healthcare concerns 207  
healthcare information management 212  
healthcare information system (HIS) 217, 220, 221  
holistic models 260  
HollandsMidden 110, 111, 112, 114  
human error 218  
Human Resource Management Information System (HRMIS) 60  
hypertext markup language (HTML) 152, 274  

I  
IBM Function Points method 125, 129  
ICT 36, 38, 39, 40, 43, 45, 48, 52, 54, 56, 36, 59, 74  
ICT4D (ICT for Development) 28, 30  
ICT-based knowledge tools 240  
ICT strategies 79, 80, 88  
IEA eLearning modules 238, 244  
IEA eLearning programme 237, 238  
IFPUG 125, 126, 127, 128, 130, 131, 145  
ILF 125, 126, 127, 128, 130, 131  
IMF 173, 174, 175, 177, 178, 187  
impact of the information technology Act 43  
income tax administration 58  
individual readiness 39  
Informatics Association of Turkey (TBD) 155  
Information and Communication Technology (ICT) 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 16, 17, 22, 24, 25, 27, 28, 29, 30, 31, 32, 34, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 93, 95, 96, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 163, 167, 171, 172, 184, 192, 193, 208, 210, 211, 213, 214, 219, 221, 223, 225, 227, 228, 239, 247, 249, 254, 255, 256, 262, 263, 267, 268, 269, 273, 280, 207, 283, 164, 190  
information centres 88, 90  
information-divide 80  
information poor 90  
information rich 90  
Information System Investment Decision Process Model 167  
Information Systems (IS) 82, 86, 97, 100, 112, 114, 117, 118, 119, 120, 124, 125, 126, 127, 128, 129, 130, 133, 134, 135, 137, 138, 139, 143, 144, 260, 262, 263  
information technology (IT) 1, 208, 209, 221, 222, 223, 224  
information technology (IT) knowledge 260  
information technology (IT) revolution 259  
information technology systems (ITS) 259  
infrastucture readiness 39  
Inland Revenue Board of Malaysia (IRBM) 57, 58, 60, 61, 76  
inputs 119, 120, 125, 126, 128, 130, 131, 143, 144  
Instructional Design (ID) 240, 241  
Instructionism 239  
Integrated Emergency Room Systems (GMS) 109
Index

Integrated Environmental Assessment (IEA)  

interactive portal 209

Interagency Panel on Climate Change (IPCC) 235

International Function Points Users Group (IFPUG) 125

International Institute for Sustainable Development (IISD) 227, 231, 234, 236, 242, 252, 255

International Water Association (IWA) 235

Internet Governance Forum (IGF) 80, 92

Internet subscribers 81

ISO/IEC 118, 120, 128, 140, 145

ISO/IEC JTC1 (Join technical committee for Information technology) 118

IT infrastructure 59, 74

ITU 80, 81, 84, 87, 92, 95, 102

J

joint assessment 59

K

knowledge centres 88, 90

knowledge management system 13

knowledge record 208, 211

knowledge-sharing 157

L

labour force 60

latent demand 36, 44

learner-centered opportunities 247

Learning Management System (LMS) 238, 239, 242, 243, 257

legislative framework 183

Lembaga Hasil Dalam Negeri (LHDN) 57, 60, 61, 73

Linux Users Association 150, 156, 158

livelihood centric demands 53

livelihood security 35, 37, 44, 46, 47, 48

Living Labs 282, 283, 290, 291, 292, 294, 296, 297, 298, 299, 300, 301

Local Agenda 21 185

local Government authorities 261

M

Macau SAR (Special Administrative Region) Government 208, 209, 210, 215, 216

Malaysian Income Tax Act, 1967 57, 58

management interaction 192

Manetic – Macau New Technologies Incubator Center 209

mass customisation 284

Master Plan 84, 86, 91

MCPC (Multi Channel Per Carrier) 20

Measurement 145, 146, 147

Medium Term Strategy (MTS) 229, 230, 237

membership system 200

MENTOR (Marketplace for ENvironmental Training and Online Resources) 236, 237, 238, 249, 250

metropolitan municipalities 149, 150, 159

government (mobile government) 43

Millennium Ecosystem Assessment (IMA) 235

Mind Maps 264, 265

Ministry of Finance (MOF) 57, 176, 184, 187

Ministry of National Education 159, 162, 167

MIOS 112

miscommunication 114

mission mode projects (MMPs) 40, 41, 42, 43, 44, 51

mobile government 43

MobiPol 110

Moodle Learning Management System 228, 238, 239, 242, 243, 249, 254, 255, 257

multilateral environmental agreements 231

Multimedia Super Corridor (MSC) 59

multiplication factors 121

multi-purpose village information centers (MV-ICs) 20, 26

municipal expenditure 178, 181, 182

municipal health centers 276

municipality expenditure (MunExp) 180, 181, 182

Municipality Law 177

municipality population (MunPop) 180, 181

municipal population 181, 182
Index

mutual management 192
Mutual Shaping 116

N
national development 156
national e-governance plan (NeGP) 35, 37, 38, 40, 41, 42, 43, 44, 47, 48, 51, 53
National Environment Management Action Plan (NEMAP) 8, 12
national government ministries 149, 150
national level policies 38
national strategy 155, 158
National Telecommunication Policy 16
nav-des 178
needs analysis 241, 242
negotiate 202
Netcentric Work 107, 113, 114, 116
new public management (NPM) 173, 187, 191
non-governmental organizations (NGOs) 8, 9, 12, 13, 28, 29, 87, 171, 183, 184, 185, 186, 192, 193, 194, 201, 203, 204, 205

O
office hours 246, 249
Office of Government Commerce (OGC) 154, 163
Office of Management and Budget (OMB) 154, 163
one-to-one marketing 284
One UN 229, 253
Open Source Competency Centre (OSCC) 154, 163
Open Source Initiative 153
open-source products 153
open source software 148, 149, 151, 152, 153, 155, 156, 161, 163, 167, 168
ordinal estimation scale 124
Organisation for Economic Co-operation and Development (OECD) 173, 174, 175, 187, 189
original budget 178, 179
OSS 154, 162, 163
outputs 120, 126, 128, 130, 144

P
paper-based transparency 172
PARDUS 155, 156, 157, 159
participatory budgeting 185
per capita income 178, 180, 182
per capita income in the municipality (PerCI) 180, 181, 182
Performance Program 191
performance reports 174
Personalized e-health records (PHRs) 212
petition 195, 197
PFMCA 176, 177
pharmacy module 217, 218
physician-patient communication 213
PIN number 62
policy making 228, 231, 232
political and regulatory readiness 39
political (or electoral) participation (PolPar) 180, 181, 182
political participation 178, 181, 182, 183
political support 158
polls 241, 243, 244, 246
poor user interfaces 45
poverty initiatives 235
privacy 207, 212, 216, 217, 220, 221, 224
private companies 278
private-public-partnership (PPP) 43, 44
private sector chief information officers (CIO) 258
private sector enterprises 259
private sector organisations 261, 262
Product 147
Programme of Work (POW) 230
programming language 125, 129, 134, 139, 140
Project 135, 147,
Project Monitoring System (PMS) 60
Proprietary Software 151, 167
Public Access Centres (PACs) 26
Public Financial Management and Control Law (PFMCL) 175
public scrutiny 176, 177
public sector chief information officers (CIO) 258, 264, 270
public sector organisations 258
Putnam’s principle 142
quantitative estimations 123

Rapid Prototyping (RP) 240, 241
record element types (RET’s) 126, 127
Regional Cooperation (DRC) 230
Regional Incident Procedures 109
regional ministerial environmental forums 231
requirements 119, 121, 125, 126, 128, 129, 131, 135, 136, 138, 139, 140, 141, 142, 144, 145, 147
right to information law 176, 181
rural citizen participation 37

S
SC7 (System and Software Engineering) 118
Scientific and Technological Research Council of Turkey (TUBITAK) 155, 156, 157, 159, 160
SCPC (Single Channel Per Carrier) 20
SDNP Bangladesh (SDNBD) 2, 18, 21, 22, 26, 28, 29, 30
searchable repositories 214
security tightening 57, 63, 72, 73
Self Assessment System (SAS) 58
self-government 151
self-learning culture 210
self-test 240, 241, 243
service level agreements (SLA) 285, 286
Service-Oriented Architecture (SOA) 217, 221, 284, 224
severity metrics 48, 49
sikayetço.com 197
sikayetimiz.com 192, 194, 195, 196, 197, 201
simple participant 136
SLIM formula 142
snowballing method 150
social constructivism 239
social network 2, 4
socio-cultural systems 38
socio-economic ambience 39
socio-economic development 151, 166
software as a service (SaaS) 284, 285
Software product development effort 120
Software Productivity Research (SPR) 129, 130, 131, 145
software transparency 148, 149
solution platform 197, 198, 199, 202
SPR Feature Points 129, 130
SPR Knowledge Plan 131
standard applications (or API) 136
state of the environment (SoE) 233, 248
State Parliaments 261
state-wide area network backbones (SWAN) 38, 41
Steering Committee 13, 14, 16, 22, 24, 25, 27, 29, 30
stochastic approach 123
Strategic Framework (SF or Biennial Programme Plan) 230
strategic plan 177, 178, 179, 180, 191
Sub-Implementing Agencies (SIAs) 12
supply-driven service 35
support networks 282
sustainability 17, 22, 24, 25, 26, 27, 29, 30, 31
sustainable development 1, 6, 7, 8, 9, 13, 25, 31
Sustainable Development Networking Foundation (SDNF) 8
Sustainable Development Networking Programme of Bangladesh 81
sustainable development networking programme (SDNP) 1, 2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32
Sustainable Development Network (SDN) 7, 8, 14, 15, 16, 17, 18, 29
Sustainable Environment Management Programme (SEMP) 8, 12, 13, 14, 15, 16, 17, 24, 29
SW systems 118, 119, 120, 121, 125
synchronous 238, 242, 249
systems latency 35
T
tax filing returns 58, 61
tax management system 58
Index

tax returns 61, 62, 63, 64, 65, 66, 68, 69, 70, 71, 73, 74, 78, TBD 155
technical complexity factor (tcf) 133, 134, 138
technology acceptance model (TAM) 64
Technology, Industry and Economics (DTIE) 230
technology readiness 59, 63
telecommunications 16, 85, 89, 98
teleconferencing 219
tele-density 38, 40, 41
telemedicine 219, 222, 223
Tell Me project 282, 283, 284, 290, 291, 292, 294, 295, 296, 297, 298, 299, 300
tFactor 133, 138
The Integrated Assessment Society (TIAS) 235
Theory of Reasoned Action (TRA) 64
the Platform 236, 250
The Regulation on Activity Reports 177
The Regulation on the Procedures 176
timeliness 178
time loss 198
Topt 142
tOSSad (Towards Open Source Software Adoption and Dissemination) 156, 164
Total Quality Management 206
Train the Multipliers (ToM) 251, 253
train-the-trainer (ToT) 236, 248, 249, 250, 251
Trans-European services 283
transparency 171, 172, 173, 174, 175, 176, 177, 178, 180, 181, 182, 183, 184, 185, 186, 188, 189, 190, 191
treasury guarantees 175
Turkey’s complaint line 195, 203
Turkish government agencies 148, 149, 156, 157, 158, 160, 162
Turkish Informatics Foundation (TBV) 155
Turkish public sector 148, 149
Turkish Radio and Television Supreme Council (RTUK) 149, 157
two-way interactions 209

Unadjusted actor weights (uaw) 132
unadjusted business diagram weight (bud) 137
unadjusted business diagram weights – ubdw 137
unadjusted function points (UFP) 126, 127, 128
unadjusted participant weight (up) 117, 121, 122, 128, 134, 137, 141, 143
unadjusted Use Case Points (uucp) 132
Unadjusted Use Case Points (UUCP) 131, 132
Unadjusted Use Case weights (uucw) 132
UN-HABITAT 235
Unified Theory of Acceptance and Use of Technology (UTAUT) 64
United Nations Conference on Environment and Development (UNCED) 7
United Nations Development Programme (UNDP) 1, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 22, 24, 25, 27, 28, 29, 30, 31, 80, 84, 87, 88, 91, 92, 93, 230, 235, 254, 257
United Nations (UN) 228, 229, 230, 234, 235, 253, 254, 257
universal service obligation (USO) 37, 40
Universal Telephone Service 16
Use Case diagrams 131
Use Case Points (UCP) 131, 132, 133, 134, 135, 137, 138, 139, 146

V

value adjustment factor (VAF) 126, 127, 128
value nets 284
variant 143, 144
view of measurement (MV) 128
village centres 90
village information system (VIS) 38, 46, 47, 48, 49, 51, 53, 54
virtual conference space 214
virtual enterprises 284
vision impaired people 275, 276, 278
visual impairment 273, 274, 275, 278, 279,
Index

280
vizcheck 275

W
water vulnerability 236, 254
web 2.0 technologies 113, 116
Web services models 285
window of opportunity 161
wired government 208, 209, 210, 219, 220
work consumption 121, 142

work effort 118, 119, 120, 140, 141, 142, 143
World Health Organisation (WHO), the 274, 279
World Resources Institute (WRI) 233