Index

Note: Page numbers followed by "n" indicate notes.

5G, 38n17, 170, 172, 177	Civil society organisations, 230
	Clouds, 18, 55, 253, 260
Affordable Connectivity Program, 40	Coding, 105–106
Aprendo en casa platforms, 162	Company Voluntary Agreement
Arcadia, 138–140	(CVA), 139
Artificial intelligence (AI), 36	Consumer Credit Panel (CCP), 95
AstraZeneca, 2	Content Delivery Networks (CDNs),
ATU, 174	21, 30, 44
Autonomous systems (ASes), 49	Content regulation, 237, 258
•	Cooperation, 111, 114, 159, 159, 163
Big Blue Button, 111	Coronavirus Aid, Relief, and
BioNTech, 2	Economic Security Act
Bizindaalo, 159	(CARES Act), 39n19
Blended learning strategy, 108	Coronavirus disease of 2019 (COVID-19),
Body of European Regulators for	1–7, 18, 39–42, 47, 52,
Electronic Communications	65–69, 71–72, 78, 82,
(BEREC), 35, 37	84, 87–88, 92, 103, 105,
Bring into use (BIU), 183	109–114, 122, 135–136,
British Standards Institute (BSI), 123	142–145, 153–156, 170,
Broadband, 7	173, 175–180, 183, 196,
access services, 20n3	198–199, 202, 207, 209,
inclusion policies, 39	216–218, 220, 222, 229–
network provider performance,	239, 245–250, 254–261
204–207	accelerated networking trends and
Broadband providers, 154, 196	ecosystem, 48–50
investment incentives, 207–208	as change agent, 7, 12, 45, 55,
Building cooperation, 111	247–252, 258
	education in time of, 105–108
Cable & Wireless (C&W), 162–163	effect of COVID-19 on internet
Capital expenditure (CAPEX),	traffic, 19–35, 65–69
177–178	Covid-related phishing, 223–225
Caribbean, state of	crisis, 18, 25, 27, 36, 45, 47–48,
telecommunications and	51, 72, 104, 108, 110, 161,
COVID-19 in, 162–165	179, 186, 232, 234–235,
Central data repository, 130	245–246, 250–252, 260
Cisco, 45	impact on application usage, 21-26
Cisco Webex, 42, 78, 80, 222	investment and innovation, 48
	·

pandemic, 8, 11, 21, 47, 72, 92,	Digital policy responses, 36
105, 110, 115, 153–154,	Digital scouting, 111
159, 162, 165, 176, 180,	Digital seizing capabilities, 104
183, 186, 196, 216–218,	Digital sensing capabilities, 104
222, 229, 231–235, 247,	Digital teaching and learning tools,
256–257, 259, 262	103–104
publicly available data, 51–52	Digital technologies, 246
retailing success stories, 141	for teaching and learning, 111
state of telecommunications and	Digital tools, 78–81
COVID-19 in Caribbean,	Digital transformation, 38
162–165	building dynamic capabilities for
state of telecommunications	digital transformation in
and COVID-19 in Peru,	educational sector, 109–110
160–162	digital capabilities, 104
state of telecommunications and	in education, 104–105
COVID-19 in Uganda,	literature review, 105–108
156–160	theoretical approach, 110-114
COVID-19 Telehealth Program, 40	Digitalisation, 98
Criminal law, 232	Disaster Management Act, 232
Cyber Volunteers 19 (CV19), 219–220	Disinformation, 231, 257–258
Cyber-attacks, 256–257	Disruption, 37 <i>n</i> 16
Cyber-governance, 257–258	Distance learning, 104
Cybercrime, 216	Distributional effects, 92–94
cybersecurity and remote work,	Donut effect, 5
220–223	Downstream traffic, 30, 78
online scams and Covid-related	Dropbox, 44
phishing, 223–225	Dynamic capabilities framework, 104
ransomware and healthcare	
organisations, 217–220	E-commerce, 5–6, 20
Cybersecurity, 51, 81, 216—223, 225,	Economic impacts, 154
256–257, 261	Education, 256
	limitations, 106
Debenhams, 139–140	method, 105–106
Demand shocks, 26	results, 106–108
Digital divides, 7, 12, 38–41, 44,	in time of COVID-19, 105
47–48, 55, 248, 250,	Educational institutions, 103–104, 110
253–254, 261	digital dynamic capabilities in, 111
Digital dynamic capabilities, 104–105,	implications of shift to remote/
112–113	online learning for, 108,
in educational institutions, 111	246, 256
Digital Equity Act of 2021, 41	Educational technology (EdTech),
Digital infrastructures, 27, 247	104, 111, 114
Digital literacy, 111, 248, 253,	Effective digital learning, 108
256–258	Emergency Broadband Benefit
education, 111	program, 40
Digital Pact for Schools, 111	Emergency Connectivity Fund, 40
2	Zinergeney connectivity rund, to

EU Digital Services Act (DSA), 238	Healthcare organisations, 217–220
European Commission (EC), 38, 173,	High street, 138
199, 208–209, 246, 258	Home networks, 19, 51, 257
European Data Governance Act	Hospitals, 217, 219
(2020), 130	Human rights, 231
European Electronic Communications	<i>5</i> ,
Code (EECC), 78–79	IMT, 172
European Union (EU), 2, 35, 72, 173	Infodemic, 229–230
European Working Conditions	fake news, 230–231
Surveys (EWCS), 74	Information communication and
Evil Corp, 220	technology (ICT), 158
Extraction, 105–106	Information technology (IT), 158
	Information-processing tasks, 90
Facebook, 237	Infrastructure Investment and Jobs
Fake news, 230–231	Act (IIJA), 40
government responses to 'fake	Innovations, 8, 45, 50, 104, 246–248,
news' in times of global	258
health crisis, 231–235	Innovative methods, 108
Feasibility of continued remote work	International spectrum management,
as pandemic abates, 88–91	173–174, 181–183
Federal Communications	Internet, COVID-19 and, 3, 18
Commission (FCC), 39–40,	annual changes in cross-country
196–197, 203	internet traffic, 31
Federal Trade Commission (FTC), 197	collective insights for post-
Fixed wireless access (FWA), 178	COVID-19 future, 45–52
Freedom of expression, 232	effect of COVID-19 on internet
Future of networking, 50	traffic, 19–35
Future of work, 255–256	future course of pandemic effect,
	30–35
Gender, 93 <i>n</i> 11	government and private sector
General Data Protection Regulation	responses, 35–45
(GDPR), 204	impact on application usage, 21-26
Google, 45, 125–126	impact on internet traffic, 26–35
Google Docs, 26	and network performance, 27–29
Government responses, 249–250	traffic patterns, 30
Government responses in USA and	Internet ecosystem, 252
EU, 36–41	consolidation and growing tensions
Great Exploration, 247	in cyberspace, 254
Great resignation, 5, 91, 247	Internet Exchange Points (IXPs), 21,
Gross domestic product (GDP), 155,	28, 30, 34, 41–42, 49–50,
160	78 <i>n</i> 3, 252
	Internet service providers (ISPs),
H1N1 flu virus (see Swine flu)	18–19, 21, 27, 29, 41–44,
Health Insurance Portability and	49, 55, 200, 209, 252–254
Accountability Act	Internet of Things (IoT), 129–130,
(HIPAA), 217	259

INTERPOL, 222, 224	Personal data, 127-128, 130, 223
ITU-R Bureau (BR), 173	Personal protective equipment (PPE),
<i>\'</i>	164
Keep Americans Connected pledge,	Personalised learning, 104
39, 45	Physical presence, 78, 88–89, 91, 182,
33, 13	256
Labour productivity, 74	Policy-makers, 7, 10, 19, 35–41, 52,
Learning management systems	56, 88, 97–99, 104, 199,
(LMSs), 109	217, 254, 257
Liberty Latin America (LLA), 163	PolicyTracker, 179
Elocity Edilli / Illicited (EE/1), 103	Post-COVID-19, 7–8, 18, 27, 45, 129,
Machine learning (ML), 44, 50, 224,	246, 248, 260
252	collective insights for post-
Mental health/psychological stress	COVID-19 future, 45–52
during pandemic, 107–108	new normal, 246
Microsoft, 45	Preparedness, 249–250
Microsoft Teams, 3, 78, 80, 111	Primark, 146–147
Ministry of Internal Affairs and	Private sector responses, 41–45
Communications (MIC),	Protection from Online Falsehoods
171	and Manipulation Act
Misinformation, 7, 11, 159, 229–238	(POFMA), 233
Multilocational work, 73	Public funding, 111
Wutthocational work, 73	Public institutions, 103
National lockdowns, 146	1 done institutions, 103
NB-IoT, 130	Radio Regulations (RR), 173, 181
Net neutrality, 10–11, 41, 196–199,	Radio Regulations (RR), 173, 181 Radio Regulations Board (RRB), 173
201–209	183
Netflix, 20, 37, 176	Radio Sector of the International
Netflix Open Connect, 43	Telecommunication Union
Next Generation EU (NGEU), 38	(ITU-R), 170, 181
Treat Generation Le (TrGLe), 30	Ransomware, 217–220
Ocado, 137	Rapid prototyping, 111
Online gaming, 25	Recovery and Resilience Facility
Online grocery shopping, 136–138	(RFF), 38
Online learning, 3, 8, 36, 104,	REG4COVID, 173
108–109, 114–115, 163	Regulation, 36, 154, 197, 208, 252
Online retailers, 137, 139	Remote work, 72, 220–223
Online scams, 223–225	different impacts on different
Open Internet Order (OIO), 196	population groups, 84–86
Organisation for Economic	different impacts on different
Co-operation and	sectors, 84
Development (OECD),	digital tools, 78–81
154–155	growth of remote work during
Over-the-top (OTT), 20, 37, 39,	pandemic, 81–83
175–176	by knowledge workers, 73–74
1/3-1/0	by Knowledge Workers, 15-14

likely course, 86–97 modern digital services and	Suitability of jobs, 90 Surveillance, 127–128
telecommunications	Swine flu, 104
networks, 79	Symantec, 220
observations and implications for	
public policy, 97–98	Telecom policy, 203
shift to, 74–78	Telecommunications networks, 78
trends, 72–86	Telecommunications providers, 160
Remote/online education, 108	Topshop, 138
Resilience, 3, 10, 18, 27, 48, 51–52,	Trade unions, 86
55–56, 179, 246, 251	Trials, 122
Restoring Internet Freedom Order	Truth in age of pandemics, 238–239
(RIFO), 196, 206	TSDSI, 174
Retailing, 136	Twitter, 235–236
developments, 140–142	
dismantling retail empires and	Uganda, state of telecommunications
closing stores, 138–140	and COVID-19 in, 156–160
online grocery shopping, 136–138	Uganda Communications
	Commission (UCC),
Sandvine, 21–22, 26, 30, 43, 51, 67, 78	158–159
Severe acute respiratory syndrome	UK retail, 135
(SARS), 104	decline, 144–145
Short message service (SMS), 161	squeezing of landlords, 142–144
Skype, 80	Upstream traffic, 30, 78
Slack, 26	Y
Smart city, 122–123, 128, 130	Veteran's Affairs (VA), 199
Smart healthcare, 128	Video conferencing, 3–4, 20, 25, 29,
Smart lighting systems, 123	43, 45, 248, 252
Smart logistics, 128–129	Video streaming, 25–26, 29–30 <i>n</i> 12, 176
Social media, 6, 11, 25, 109, 196,	
230–231, 234, 258 companies, 230	Virtual private networks (VPNs), 20, 220–221
platforms responses, 235–238	220–221
Socioeconomic impact of COVID-19,	Waitrose, 138
135	Warehouses, 137, 144
Spectrum, 10, 39, 169–170	WebEx, 25 <i>n</i> 6, 39
international spectrum	WhatsApp, 80, 162
management, 173–174,	Wi-Fi, 130, 169, 170–171, 173–175,
181–183	180–181, 183, 186, 201,
management, 171–173, 179–181	204–205
use, 170–171, 174–178	Wireless network, 129–130
Spotify, 20	Women, 85–86, 93–94, 154, 255
Squeezing of landlords, 142–144	Work from home (WFH), 3, 5, 71,
Strategic agility, 111	76, 126, 135, 158–159, 163,
Stringency Index, 155	165, 175, 178, 201, 217,
Structure of book, 7–12	220, 222–223, 225, 248, 250

272 *Index*

Worker and employer attitudes towards remote work, 91–92 World Health Organisation, (WHO), 229 World Radiocommunication Conference (WRC), 181 WRC-03, 180 WRC-19, 173 WRC-23, 170, 178, 183

YouTube, 20, 235-236

Zoom, 3–4, 39, 43, 45, 78, 80, 111, 221–222