## Index

Titles of publications appear in italics.

| Abellauser, W. | 103, 104, 128 |
| access costs | see costs, internet access |
| Ahlvarsson, O. | 235 |
| Amazon.com | 45, 48 |
| bilateral flows and US internet dominance | 53–5 |
| bit tax | 71–2 |
| bootstrapping, Germany | 179–80 |
| Börnsen, A. | 111, 157 |
| Borrus, M. | 79 |
| Boxman | 223 |
| Btx | 105–6, 123, 152–3 |
| business-to-business (B2B) exchanges | 176 |
| cable TV, Germany | 148–51 |
| California Effect | 83, 84 |
| capital gains taxation | 213 |
| Cartel Law, Germany | 102–3 |
| Casino Capitalism | 35 |
| Castells, M. | 7, 8, 35, 43 |
| Chandler, A.D. | 46 |
| Christensen, C. | 45, 137, 182 |
| city carriers, telecommunications investment | 160–61 |
| Clement, W. | 112–13 |
| Clinton administration, and internet development | 64–5 |
| Cohen, S.S. | 22 |
| Communications Outlook | 141 |
| competition policy | 84 |
| telecommunications | 137–9, 202–6, 250–52 |
| Deutsche Telekom | 155–8 |
| see also liberalization |
| computer networks | see data networks |
| consumers, integration into network | 42–3 |
| corporate taxes, Germany | 100 |
| corporatism | 103–4 |
| Cortada, J.W. | 46 |
| cost challenge, telecommunications | 137–9 |
| costs, internet access | 139–44 |
| and demand | 44 |
| Deutsche Telekom | 162–3 |
| and distance insensitivity | 66–8 |
| Europe | 199–203 |
| Germany | 134–6 |
| T-Online | 153–5 |
| customized ordering | 43 |
| Cusumano, M.A. | 6 |
| data networks | 34–40 |
| international regulation | 63–8 |
| see also internet |
| data protection, Europe | 74–5 |
| debt, Deutsche Telekom | 142–3 |
| decentralization of innovation | 7–8 |
| DECT | 110–11 |
| Delaware Effect | 82 |
| demand for internet services Germany | 182–3 |
| transnational | 41–5 |
| deregulation, telecommunications see liberalization, telecommunications |
| Dery, M. | 9 |
| Deutsche Telekom AG (DTAG) | 26 |
| and cable TV | 148–51 |
| and competition | 137–9, 155–8, 162–4 |
| debt | 142–3 |
| and internet access | 133–44, 151–5, 162–4 |
| and liberalization | 107–13 |
| network infrastructure | 144–8 |
| Deutches Forschungsnetz (DFN) | 106–7 |
Index

Dicken, P. 39
digital mobile telephony standard (GSM) 78
digital signatures 76–7
law, Germany 114
distance insensitivity, internet 63–8
Dittberner, K.-H. 141
domain name system (DNS) 81
Donges, J. 106
Dwyer, P. 166
Dyson, E. 5, 7
Dyson, K. 102, 115

E*TRADE 48
EASDAQ 207–8
EDI (electronic data interchange) 42
EED (European Enterprises Development SA) 207
electronic commerce
firms 48, 215, 220–23, 224
regulation 80–85
electronic data interchange (EDI) 42
embeddedness 17
encryption legislation, US 75
encryption system skills, Germany 185–6
enterprise resource planning (ERP) 36
entrepreneurship 45–51
Europe 3–4, 23–5
Germany 22–3, 174–87
equity investment support, Germany 118–9
Ergas, H. 23, 88
Erhard, L. 102, 104
Eucken, W. 126
Europe
data protection 74–5
internet access pricing 199–206
internet demand 196–9
internet ventures 191–2, 196–9, 213–31
venture capital funding 206–12
see also individual countries
European Enterprises Development
SA (EED) 207
European Venture Capital Association (EVCA) 207
evolutionary change 15
evolutionary economics 13

FDI see foreign direct investment
Fields, G. 22
finance see funding
financial controls, internet 72
financial industry, networks 35–6
financial services, regulation 83
foreign direct investment (FDI)
Germany 101
and globalization 37–8
Framework for Global Electronic Commerce, A 64–5, 71
France
online network 39, 192
portal ventures 223–4, 226
web developers 218
Freer Markets, More Rules 83
Freytag, A. 111–12
funding, internet ventures 49–51, 206–12
Germany 118–21, 177–81
German Development Bank 118–19, 122
Germany
digital signatures legislation 77, 114–15
economy 95–101
electronic commerce firms 220–21, 224
internet uptake 182–3, 196
internet ventures 213–26
multimedia legislation 113–18, 122–3
policy-making 101–4
research network 106–7
telecommunications liberalization 107–13, 123–4, 204–6
venture capital 118–21, 207–11
videotex system 105–6, 123
web developers 218, 224
Gerpott, T.J. 140, 145
Gilder, G. 5, 9
Giussani, B. 238
globalisation, effect on individual 43–4
Glotz, P. 145
Google 56
Gore, A. 65
government policy
Germany 122–4

Niko Marcel Waesche - 9781781951330
Downloaded from Elgar Online at 03/30/2019 02:52:36AM
via free access
innovation support, Germany 118–21
internet development 19–20, 64–5, 133–5
technology, Germany 105–7
telecommunications 96–7, 107–13
see also legislation, regulation
Greenspan, A. 24, 27
GSM digital mobile telephony standard 78, 252

Haaren, K. van 112–13
Hagström, P. 57–8
Hall, P. 11
Harvey, D. 8, 60
Helleiner, E. 88–9
Hellman, T. 188
Hills, J. 68
Hirst, P. 39
historical institutionalism 11
Hodgson, G. 10, 11, 15
horizontality of internet 243–4
Humphreys, P. 109, 125

income taxes, Germany 100
industrial cluster-based theory 13–14
industry, network-based services 36
Information and Communication Services Act, Germany 113–18, 122
infrastructure, network, Germany 144–8, 163–4
innovation
centres 7–8
policy, Germany 97–8
Silicon Valley 22
small firms 21–2, 79–81
see also entrepreneurship
Innovator’s Dilemma, The 137
institutional reform, Sweden 193–5
institutionalist theory 10–16, 240–42
intellectual property rights 75–6
international networks regulation 66–8
international political economy (IPE) 17–18
International Telecommunications Union (ITU) 66
internationalization
German internet start-ups 181–2
internet 33–4, 244
internet
access costs see costs, internet access
business models 214–26
domain name system (DNS) 81
entrepreneurship see entrepreneurship
software companies, Germany 176
standards 85–6
subsidy, USA 69–70
tariffs 71–4
technology 1–2, 40–41
see also telecommunications
and telecommunications policy 133–64
unregulation 63–87
uptake
Europe 196–9
Germany 182–3
USA dominance 52–6, 68–70
ventures
Europe 213–30
Germany 174–87
and regulation 63–4, 79–81
investment
internet ventures
Europe 206–12, 226, 229
Germany 177–81
USA 46, 49–51
network infrastructure 67, 158–62
see also venture capital investment
ISDN, Germany 146–8
Isenberg, D. 58–9
ITU (International Telecommunications Union) 66

Jäger, B. 111–12
Janz, W. 233
Jobpilot AG (Jobs and Adverts AG) 220–21
Jungmittag, A. 2
Katzenstein, P. 102, 195
Kelly, K. 6, 7, 8, 15, 241
Kenney, M. 47
KfW (Kreditanstalt für Wiederaufbau) 118–19, 121, 122
knowledge management skills, Germany 185
knowledge workers 43
Kohl, H. 102
Index

Kreditanstalt für Wiederaufbau (KfW) 118–19, 121, 122
Kühler, S. 153

Laurence, H. 83
leased lines 67
legislation, Germany 101–4
multimedia 97, 113–18, 122
Lerbinger, P. 233
Lessig, L. 10, 40
liberalization, telecommunications
  Germany 107–13, 123–4, 204–6
  and internet pricing 202–3
  and internet ventures 2–3, 230–31
  Sweden 203–4, 205–6
see also competition
Litan, R. 73, 79, 82
local loop, and internet development
  2–3
  Germany 110–11, 134–5, 163
Lux, H. 145, 146, 154
Lycos 48

Mackie-Mason, J.K. 165
Magaziner, I.C. 71, 73
Maier, C.S. 103
Majone, G. 84
management skills, German internet entrepreneurs 184
Mannesmann AG, telecommunications investment 159–60
Mannesmann Arcor 162
market capitalisation, telecommunications companies 160
Mayer, M. 110–12
Meister, M. 114
Milner, H. 12, 19
Minitel 39, 223–4, 226
mixed play portals 221–2, 248
MobilCom 161–2
mobile telephony standards 78
Mokyr, J. 13
Morin, P. 234
Möschel, W. 124, 161
Mosdorf, S. 113, 135
Mowery, D.C. 18
Müller, M. 112
Müller, W. 112
multilateral flows, internet 52–3

Multimedia Law, Germany 97, 113–18, 122

Nation Transformed by Information, A. 46
national carriers, telecommunications investment 159–60
national online networks 39–40
Negroponte, N. 163
Nelson, R.R. 13, 18
Netherlands
taxation and entrepreneurs 212–13
  web developers 218–19
network
effects 7
externalities 51
  thinking 5–7, 9–10, 14–16, 241–2
networks
development 34–40
  infrastructure, Deutsche Telekom
  144–8
international regulation 66–8
Neuer Markt 207–9, 239
New Rules for the New Economy 241
Noam, E. 71, 84
North, D.C. 11, 12

Ohmae, K. 44
Olson, M. 11, 12
open but owned systems 79
open technology, internet 40–41
options taxation 213

packet switched networks 137–8
penetration, internet 49
Pogorel, G. 88
policy convergence 87
policy-making 19–22
  Germany 101–4
political economy, and internet development 245–7
polyarchy 19
portal sites 48, 215
  Europe 223–4, 226
  Germany 176
Porter, M.E. 13–14, 49
pricing, internet see costs, internet access
private equity finance, Germany

178
public telecommunication operators (PTOs) 20–21
punctuated equilibria 13
pure play electronic commerce firms 220–23, 247–8
Puri, M. 188
Quah, D.T. 7, 55–6
rational choice institutionalism 11
Rechtsstaat 102
and multimedia legislation 113–18
refraction 17–18, 95–6, 240–43
RegTP 107–8, 155–7
regulation
electronic commerce 80–85
and innovation 79–81
international networks 66–8
and internet 70–76
regulator, German telecommunications 107–8, 155–7
Reich, R. 43
Request for Comments (RFC) 40
research network, Germany 106–7
resource-based innovation research 13
Reulecke, L. 117–18
Riesenhuber, H. 107, 122
*Rise of the Regulatory State in Europe, The* 84
Roemer, H.P. 233
Rosenau, J.N. 43
Rule of Law, Germany see Rechtsstaat
Sally, R. 17
SAP 36–7
Sassen, S. 8, 89
Scharpf, F. 115
Schiller, K. 102
Schneider, V. 105
Schumpeter, J. 15, 240
Schwarz-Schilling, C. 109
Scott Morten, M.S. 60
second-generation companies 226–30
sectoral innovations systems research 13
self-regulation, US 73–4
Silicon Valley 3, 22
Sjörgen, H. 195
SKF, computer network use 36
skills, German internet ventures 184–6
small and medium sized enterprises (SMEs)
funding, Germany 118–21
innovation capacity 21–2
and regulation 79–81
Sobel, A. 83
social programmes, impact on German economy 98–101
sociology
and globalization 6
and internet use 43–4
Soete, L. 71
software agent skills, Germany 185
Sommer, R. 140, 158
standards, technological 76–9, 85–6
GSM 78, 252
see also regulation
Starbatty, J. 106
start-up firms see internet ventures
Stopford, J.M. 44
Strange, S. 35, 44
stupid networks 41
subsidy financing 119
subsidy, US internet 69–70
superstar economics 55–6
supply, internet services 45–51
Sweden
economy 194–5
electronic commerce firms 221–3
internet penetration 196–9
internet ventures 192, 213–26, 248–9
portal ventures 224
taxation 212–13
telecommunications liberalization 203–4, 205–6
venture capital 212
web developers 218–20, 224
Swire, P. 73, 79, 82
symbolic analysts 43
tariffs, internet 71–4
Tauss, J. 72, 135
taxation 100, 212–13
technological standards 76–9, 251–2
Technologie-Beteiligungs-Gesellschaft (tbg) 118–19, 122
technology policy, Sweden 194–5
technology skills, German internet ventures 184–6
telecommunications
  cost challenge 137–9
  costs 66–7
  Germany 95–8, 107–13
  see also Deutsche Telekom
  infrastructure investment 158–62
  liberalization see liberalization,
  telecommunications
  networks, regulation 66–8
  policy and internet development
  64–5
  standards 78, 252
  start-ups, investment 161
  subsidy, US, and internet 69–70
Thatcher, M. 87
The Future of Ideas 40
Thimm, A. 77
Thompson, G. 39
TISS (Travel Information Software
  Systems) 43, 188–9, 220–21
T-Online 151–5 see also Btx
trade unregulation and internet
development 64
trademark law 81
transnational demand for internet
  services 41–5
Tüselmann, H.-J. 125

UK see United Kingdom
UMTS 78
unbundling 134–5, 157–8
Ungerer, H. 150
unification, impact on German
economy 98–101
United Kingdom
  cable TV 148–9
  pure play ventures 222–3
United States
  digital signatures legislation 77
  encryption legislation 75
  government role in internet
development 63–5
  intellectual property rights 75–6
  internet dominance 52–6, 68–70
  internet entrepreneurship 24
  internet subsidy 69–70
  unmetered access 201–2
  venture capital funding 49–51
  unmetered access 201–2
  unregulation, internet 63–87
US see United States
  Varian, H.R. 165
venture capital investment
Europe 206–12, 226, 229
  Germany 118–21, 177–81
  USA 46, 49–51
videotex, Germany 105–6, 123,
  152–3
Vogel, D. 83, 84
Vogel, S. 83, 129
web development companies 47–8
  Europe 214–15, 218–20, 224
  Germany 176
Weber, M. 15, 240
Welfens, P.J.J. 2
Winter, S.G. 13
wireless local loop see local loop
Witte Commission 109
Wolf, D. 135
World Wide Web 34
WorldCom 138
WTO and internet regulation 80
Yahoo! 48
Yoffie, D.B. 6
Zerdick, A. 117
Ziegler, J.N. 126
Zorn, W. 106, 107
Zuschussfinanzierung (subsidy
  financing) 119
Zysman, J. 79