

Index

- 3Cs 113–14
- 3D Printing 14, 16, 17, 20, 58–9, 121, 128
 - see also* additive manufacturing
 - additive manufacturing 15, 58–9, 62
 - altering patterns of international trade 15
 - becoming the norm 124
 - consumer 58–9, 66
 - /additive manufacturing opportunity space 60
 - disruptive digital trend, as 47, 60–61, 62–3, 64
 - effects of 61, 116–17, 128–9, 135
 - localization of supply chain 119
 - enterprise dimension 11, 14, 61–2
 - hybrid product, as 117–18
 - Hype Cycle *see* Hype Cycle
 - impact of 59
 - manufacturing technologies
 - dimension 62
 - market segments dimension 62, 65
 - print cities 66, 67
 - print valleys 121
 - supplying raw materials 124–5, 136
 - technological driver, as 15, 70
- 4As 146
- 7Rs of logistics 116, 136, 138, 139–40, 41
- Adams Gum Company 73
- additive manufacturing 15, 58–9, 62
 - see also* 3D Printing
 - /consumer opportunity space 60
 - costs 65–6
 - predicted growth in 65
- Africa 41, 53, 54, 75
- 3D printers in 66, 67
- low-cost production hubs in 128
- Uber in 91, 92, 93
- urban agglomerations in 123, 137
- Walmart in 107
- agility 24, 26, 115, 130
 - lean thinking and 40
- AGVs *see* autonomous ground vehicles
- AI *see* artificial intelligence
- algorithms 49, 91
 - business intelligence 56, 90
- Alibaba Inc. 88, 112
 - /Suning appliances partnership 112
 - Taobao Marketplace 88–9, 112
- Amazon.com 47
 - B2C partnership 81–2, 86
 - business model 58, 106
 - Dash Buttons 147
 - delivery 82, 83, 107–8, 120–21
 - Key 95
 - last-mile delivery *see* last-mile delivery
 - On My Way 107
 - order fulfilment 82–4
 - lockers 84
 - Prime 82, 106
 - Prime Now 82
 - Subscribe & Save 146–7
- American Chicle Co. 73
- American Marketing Association 25
- AP Moller-Maersk Group 36
- apps 53, 70, 73, 80, 120, 144
 - delivery 95
 - Go-jek 101
 - location-based 50
 - On My Way 107
 - Uber 90–91
- artificial intelligence 148
- Asia
 - and the Middle East 66, 130–31
 - East 36, 75
 - Pacific 91, 93, 112
 - South 75
- ATM *see* automated teller machines

- Australasia 41, 74, 130, 131, 134
- Australia 5, 27, 49, 74,
 - automated bag-drop machines in 78
 - Post 79–80
 - sushi train 72
 - Uber in 91
 - Woolworth's Ltd/eBay
 - alliance 110–12
- automated teller machines 77, 139
- Automatic Productions
 - International 73
 - see also* vending machines
- automatic shopping 22, 147
- autonomous ground vehicles 19

- back-sourcing 130
- Bamfield, Joshua 108, 109
- Bansai, Binny 86
- Bansai, Sachin 86
- Baumgarten, Helmut 24, 41
- Beijing 41, 84, 127
 - JD.com in 85
- Berlin 53, 54
 - Wall, fall of 32
- Bezos, Jeff 82
- Big Data 11, 16, 68
 - see also* Internet of Things; logistics
 - Analytics 19, 22, 50, 52, 56, 58, 119, 144, 146
 - digital disruption, and 126
 - in logistics 57
- Big W stores *see* Woolworths Ltd
- Bookbinder, James 38
- Boston 53, 76, 83, 104
 - Internet of Things in 54, 55
- Brazil 49, 107
- bricks-and-mortar retailing 5, 47, 49, 50, 84
 - C2B model 9
 - convenience stores 110–12
 - last-mile supply chain, and 93–4, 110
 - old-fashioned, as 108
 - remaking 108–10
 - supermarkets 110–12
 - threats to 58
- Bughin, Jacques 7
- business logistics *see* logistics

- Cainiao Network 101
- California 53, 104
 - call centres 47, 48, 113
 - Camp, Garrett 90
 - Canada 74, 91, 128
 - catalogue shopping 47, 98, 99, 109
 - CB Insights 99–100, 103–4
 - CDC *see* distribution
 - Central and South America 53, 66, 91, 128, 130, 131
 - checking 113, 114
 - Chicago 53, 55
 - Loop 90
 - University of 90
 - Chief Supply Chain Officer (CSCO)
 - Forum *see* supply chains
 - China (People's Republic of) 36, 49, 71, 85–6, 91, 127, 128, 141
 - Alibaba Inc. *see* Alibaba Inc.
 - Best Logistics Technology (China) Co. Ltd 101
 - China Smart Logistics 88
 - industrialization of 41–2
 - Jingdong (JD.com) 84–6, 112
 - last-mile delivery in 112
 - logistics cities in 121
 - New Dada 101
 - One Belt One Road (OBOR) 131, 132
 - Post-China period 128, 129
 - relocation of manufacturing to 42
 - rise in labour costs 128
 - smart logistics programmes 127
 - Tianjin 85, 127
 - Christopher, Martin 32
 - clicking 79, 113–14
 - cloud
 - see also* Internet of Things
 - computing 11, 138, 146
 - extension of 53
 - hybrid 68
 - Internet of Things, and 51–2
 - technological driver, as 70
 - technology 15, 19, 56
 - coiled spring phenomenon 139, 141, 142–4
 - Collaborative Planning, Forecasting and Replenishment (CPFR) 36
 - collecting 79, 113–14
 - computers
 - mainframe 31, 140
 - personal (PC) 140

- electronic data interchange (EDI) 31
- consumer
 - behaviour 22, 135, 138, 139, 141, 145
 - purchasing journey 2, 71
 - ubiquity 21, 72, 89–90, 115
 - Uber *see* Uber Technologies Inc.
- consumer 3D Printing *see* 3D Printing
- consumer logistics 16, 47
 - digitization *see* digitization
 - DIY 70
 - emergence of 19
 - focus of 70
 - key elements in 17
 - last-mile delivery *see* last-mile delivery
 - market forces influencing 1
 - service *see* service
 - transformational era of 69, 70
- consumer logistics 1.0 18, 20, 21, 71–2, 93, 101, 114–15
- distinctiveness of 22
- Omnichannel Retailing *see* Omnichannel Retailing
- self-service culture 72, 142
 - airline self-check-in and bag drop 77
 - origins 73–6
 - postbox collection 78–80
 - technology of 76–80
- consumer logistics 2.0 18, 20, 21, 116–17, 125, 135–6
 - see also* global hub-and-spoke system; smart cities
- 3D Printing *see* 3D Printing
- city logistics *see* logistics
- distinctiveness of 22
- global hub-and-spoke system, and 130–34
- /global logistics
 - comparison 134–5
- Internet of Things *see* Internet of Things
- key elements 119
- low-cost production, and 128–30
- operationalization 117–20
- service *see* service
- smart cities 126–8
- transformational era of 121
- containers 41, 100, 133
 - container revolution 28
 - containerization 139
 - mega-ships 131, 134
- convenience stores 110–12
 - see also* bricks-and-mortar retailing
- cottage industry
 - 3D Printing, in 119, 120
 - rebirth of 124
- couriers 36, 80, 94, 98–9
 - see also* last-mile delivery
 - bicycle 83, 119
 - freelance 82
 - on-demand 9
- crowdsourcing 7–9, 70, 71, 95, 99, 106–8, 115, 121
 - see also* start-ups
 - Postmates Inc. 101, 103
 - sharing economy 10, 90, 93
 - start-ups 106
- Cullen, Michael 74
- Deliv 106
- delivery
 - AGV 119
 - Amazon 82, 83, 107–8, 120–21
 - apps 95
 - drones 96, 106, 119
 - last-mile *see* last-mile delivery
 - lockers 79, 82, 84, 98, 110, 119, 125
 - on-demand 9, 16, 93, 100, 106, 120
 - local 101
 - parcel 72, 79, 94, 106
 - costs 94
 - parcel collection 72, 77, 79
- Delivery Plus system 147, 148
- Dell 30, 45
- derived demand 22, 138, 141, 143
 - /demand driver shift 144–6
- Deutsche Post 79, 93
- Deutsche Post DHL Group *see* DHL
- DHL 94, 99, 120
 - crowdsourcing, and 95
 - Logistics Trend Radar 2016* 14, 15
 - My Ways platform 95
- digitization 2, 80, 144
 - checking 113
 - clicking 113
 - collecting 114
 - consumer logistics, of 20, 46, 71, 114

- impasse triggered by 109
 - redefining business/consumer relationship 6, 9, 19, 138–9
- disintegration 42, 43
- disruptive digital trend
 - 3D Printing as 47, 60–61, 62–3, 64
 - Internet of Everything as 47
 - Internet of Things as 47, 50, 116–17, 135
 - Omnichannel Retailing as 15, 19, 46, 47
- distribution 135
 - see also* last-mile delivery; supply chain management
 - central distribution centres (CDC) 85–6, 89, 98, 99, 125, 126
 - bypassing 50
 - optimization 58
 - outsourcing 37
 - physical distribution management 1, 18, 19, 23, 24, 25–8, 139–40
 - computerization 28
 - Council of Logistics Management (CLM) 29, 30, 39
 - definition 27
 - National Council of Physical Distribution Management (NCPDM) 25, 29
 - resource planning (DRP) 30
 - retailers 5, 22, 24, 34, 36, 47–8, 56, 74, 143–4
 - multinational 58, 106, 107, 109, 110, 112
 - omnichannel 94, 146
 - online 82, 86
 - wholesalers 25, 50, 93
- Dubai 41, 76, 121
- e-commerce 5, 9, 35, 56, 72, 94, 138
 - Alibaba *see* Alibaba Inc.
 - Amazon.com *see* Amazon.com
 - eBay *see* eBay
 - Flipkart *see* Flipkart.com
 - Jingdong *see* China
 - rising popularity 6, 80, 112
 - transport costs 5
- eBay 2–5, 50, 58, 72, 110
 - /Woolworths alliance 110–12
- economic regions 21, 40, 116
 - /smart city comparison 126–8
- EDI (electronic data interchange) 31
- enterprise resource planning (ERP) 36, 52
- environment 23, 43, 44, 61, 94, 141, 142
 - external 40
 - greenwashing 44
 - manufacturing 30
 - retailing 19
 - omnichannel 138, 144
- Everitt, Percival 73
- Facebook 80, 91
- FedEx 36, 94, 99, 103–4, 105–6
- Fenn, Jackie 11, 13, 14, 120
- fifth wave *see* logistics
- finger-swiping, button-pushing shoppers (FSBPS) 146
- fleet operations 51, 58, 98, 101, 103
- Flipkart 84, 86,
 - delivery locations 87
- France 7, 73
 - Carrefour 74–5
- Frankfurt, Uber ban in 91
- Futu Online 110
- Gartner, Inc. 11, 58
 - see also* 3D Printing
 - Hype Cycle 12, 13, 59, 68
- gateways 23, 40–41, 43, 117, 130, 133, 134, 135, 141
- Gecowets, George A. 27, 28–9
- geographical information system 56
- Giddens, Anthony 22, 141, 143, 145
- Glenn, T. Michael 107–8
- global logistics 1, 19, 23, 24, 38–43
 - see also* agility; lean thinking
 - agility as defining feature of 40
 - /consumer logistics 2.0
 - comparison 21, 134–5
 - difficulty defining 38
 - gateways *see* gateways
 - mega trends 14–15
 - operational focus 40, 42
- global warming 23, 43
- global-hub-and-spoke system 23, 117, 136
 - consumer logistics, and 24

- low-cost production hubs *see* low-cost production hubs
- /network heirarchy
 - comparison 130–34
- globalization 30, 38, 60, 130, 140, 141
- Golfbox 110
- Google 80, 90
- Great Atlantic and Pacific Tea Company (A&P) 73, 74, 75
- Greenwick, John 73

- High Street 21, 72, 98
 - remaking 108–10
- Hinchcliffe, Dion 45, 46
- Hitachi Transport Systems 39
- home-based production 117
- Hype Cycle 12, 13, 59, 68

- India 49, 87, 133
 - Bangalore 53, 54, 86
 - Flipkart *see* Flipkart
 - Indian Institute of Technology 86
 - Kolkata 86
 - Mumbai 86
 - outsourcing to 42–3
- Indonesia 129
 - Go-jek 101, 102
- industrial additive manufacturing *see* additive manufacturing
- information technology 15, 38
 - driver of productivity, as 35
 - integration 14, 69, 117
 - service, as 51
- informatization 142
- ingredients superstore 118, 119
- Internet 5, 35, 41, 58, 80
 - democratization of 8
 - e-commerce *see* e-commerce
 - enabled equipment 52–3
 - mobile 15, 119
 - physical 58
 - Web 2.0 8
 - Web 3.0 *see* Internet of Everything
- Internet of Everything 11, 19, 56
 - disruptive digital trend, as 47
- Internet of Things 9, 11, 15, 16, 17, 20, 46, 55–6, 68, 120, 128
 - application of 51
 - Big Data Analytics and *see* Big Data
- cities 53, 54, 55
- cloud computing and 51–2, 53
- companies 53
- disruptive digital trend, as 47, 50, 116–17, 135
- radio frequency identification (RFID) and 15
- inventory 27, 30
 - management 50, 51, 58, 66, 69, 98, 108
 - centralized 124
- iPhone 68, 138

- Japan 27, 74
 - Japan Post 79
 - just-in-time production 30
 - kaitensushi* 75–6
- just-in-time (JIT)
 - delivery 125
 - production 30

- Kalanik, Travis 90
- Kersten, Wolfgang 14
- Kroger 74, 75

- labour
 - child 23
 - costs 30, 128, 133
 - female, surfeit of 128
 - impact of global logistics on 43, 126
 - substituting technology for 35
 - last-mile delivery 51, 88, 110, 114, 143–4
 - see also* delivery
 - competition 106–7
 - consumer logistics *see* consumer logistics
 - consumers, and 71, 93
 - digitization, and 9, 139
 - equation 9
 - models 98
 - third-party logistics services, and 84–5
 - uberization 21
- last-mile supply chain *see* supply chains
- lean thinking 30
 - agility, and 40
- Le Hong, Hung 14, 120

- Lehmann, Bastian 101
 Liu, Quidong 84
 lockers *see* delivery
 logistics
 see also Big Data
 7Rs of 116, 136, 138, 139–40, 41
 Big Data in 57
 business 1, 18, 19, 23, 24, 26, 28–32, 140
 city 43, 116, 117
 /logistics cities
 comparison 121–6
 consumer *see* consumer logistics
 consumerization of 22
 fifth wave 16, 18, 20, 21, 142, 143
 characteristics 69
 crowdsourcing, and 71
 drivers 70
 global *see* global logistics
 green 23, 43, 44
 personal 138–9, 146–8
 personalization of 22
 reverse 23, 33, 34–5, 39
 service facilitators *see* service
 service providers *see* service
 low-cost production hubs 128
 3D Printing, and 116, 117
 Africa, in 128
 consumer logistics 2.0, and 128
 v. home-based production 128–30
 Lueth, Knud 53, 54, 55
- Mackenzie, Ian 50
 Main Street 41, 131, 133
 Makarim, Nadiem 101
 manufacturing resource planning (MRP) 25, 30
 marketing 7, 28, 44, 56, 140
 4Ps 5
 emerging global arena 30
 re- 34
 targeted 48, 49, 50
 mass consumption 142
 Matsushita Electric Corporation 30
 McKinsey Global Institute 14, 15
 mobile commerce (m-commerce) 49, 138
 mobile Internet 15, 119
 mobile technology 5, 21, 49, 69, 79, 90, 119
- multichannel retailing, transition
 from 19, 47, 48
 multinational corporations 23, 56, 117, 130
 Mytopia 110
- New Dada 101
 Nippon Express 36
 No Frills 110
- O2O 49, 112
 offline shopping 144
 see also bricks-and-mortar retailing
 offshoring 42, 43, 141
 Omnichannel Retailing 15, 16, 17, 20, 21, 47–50
 see also mobile technology
 disruptive digital trend, as 15, 19, 45, 47
 environment 138, 144
 extending 49
 touch points 47–8, 98, 109, 113, 139
 transition to 48–9
 order fulfilment 48, 81, 94
 see also last-mile delivery; supply chains
 Amazon 82–4, 107
 fulfilment centres 49, 58, 82, 83, 85
 Jingdong 85
 operational processes 33, 34
 options 98–9
 order processing 23, 24, 33
 original equipment manufacturer (OEM) 33
 outsourcing 7, 26, 36, 42, 141
 crowdsourcing *see* crowdsourcing
 to customers 80
- parcel delivery *see* delivery
 personal computer *see* computers
 Plaice, Sean 101
 point of sales (POS) 31
 Porter, Michael 30
 Postmates Inc. 101, 103
 Procter & Gamble (P&G) 81, 146
 producer 23, 37, 47, 135
 consumer as 124
 shifting surplus from 50, 56, 61, 66
 smart 117–19

- production
 innovative 117, 118
 just-in-time 30
 lean 30
 local-local 124
 logistics 39
 /logistics differentiation 6
 low-cost production hubs *see* low-cost production hubs
 non-innovative 118, 119, 120
 smart 133
- Quirky 81
- re-shoring 43, 136
- Reeves, Phil 60, 130, 131
- retailing
 bricks-and-mortar *see* bricks-and-mortar retailing
 Centre for Retail Research 108
 multichannel *see* multichannel retailing
 omnichannel *see* Omnichannel Retailing
- Roadie 106
- Rowe, William 73
- Saunders, Clarence 74
- Seagrave, Kerry 73
- self-service
 common use (CUSS) 77
 common user terminal equipment (CUTE) 77
 culture 72, 142
 origins 73–6
 economy 1, 6–10, 20–21, 70, 71–2, 139–9
 postbox collection 78–80
 technology (SST) 76–80
- service
 facilitators 120–21, 126, 131–2, 134
 fourth-party logistics (4PL) 38, 80, 120
 providers 21, 24, 43, 56, 58, 120–21
 consumer logistics 2.0 *see* consumer logistics 2.0
 third-party (3PL) 23, 36–8, 42
 self *see* self-service
- Shyp 104
- Sissons, Andrew 62, 63, 64
- smart 11
see also Internet of Things
 cities 21, 56, 126–8
 /economic region
 comparison 126–8
 producers 117, 118
 products 49, 70, 118, 119, 120, 126
 revolution 70
- Smith, Frederick W. 106
- sortation centre 82, 83
- spaces of flows 141
- speed of now 19, 21, 50, 116, 120, 136
- start-ups 7, 21
 centres 53, 55
 crowdsourcing 106
 logistics 99–101, 103–4, 105, 106
 Omnichannel Retailing and 98–9
 online 102
- Street, Sam 101
- Structuration Theory 22, 141, 143
- Stul, Fábio 49
- Suning Appliances/Alibaba
 partnership 112
- suppliers 8, 22, 23, 27, 29, 58, 146
 collaborative communities 45
 monitoring 81
 multi-tiered 31, 32
 order fulfilment, and 94
- supply chains
see also Big Data; Internet of Things; last-mile delivery; Omnichannel Retailing; order fulfilment
 chainless 130
 Chief Supply Chain Officer (CSCO) Forum 69
 Council of Supply Chain Management Professionals (CSCMP) 39
 digitization, and 9, 11, 15, 35–6, 45, 62, 66, 68, 71, 139
 evolution of 114–15, 123–5, 130, 133, 135–6
 global 38, 40, 117, 118–19
 green 23, 44
 individual 16, 48, 70
 last-mile 9, 93–4, 110
 localization of 119

- management 1, 9, 15, 23, 24, 32, 38–9, 40, 43, 56
- 3PL logistics service providers 23, 36–8, 42
- order fulfilment 33, 48, 81, 94
- order processing 23, 24, 33
- reverse 23, 33, 34–5, 39
- multinational 21, 40, 41–2, 133
- social 45, 46
- splintering sub-regionalization
- stockless 130
- virtual 40
- Surf Stitch 110
- sushi conveyor belt 73, 76
- sushi train 20, 76, 139

- Ta, Ha 81
- Tao, Shi 85
- Taobao Marketplace *see* Alibaba Inc.
- television
 - check, click and collect, and 113
 - crowdsourcing, and 7–8
 - Omnichannel Retailing, and 47, 48, 98, 99
- Thompson, Spencer 62, 63, 64
- Toyota Motor Company 30
- transport
 - see also* delivery; last-mile delivery
 - costs 2, 3–5, 40, 66, 88, 133
 - crowdsourcing, and 72, 121
 - management 50, 82, 98, 121, 128
 - outsourcing 36–7, 56
 - physical *see* distribution, physical
 - distribution management
- Twitter 80

- Uber Technologies Inc. 90–93
 - cities 92
 - Uber Black 90
 - Uber Pop 91
 - UberRUSH 9, 93
 - Uber Taxi 9
 - Uber X 90
 - uberization 21, 99, 148
- United States Postal Service 78–9, 82, 93, 103, 106

- UPS (United Parcel Service Inc.) 36, 94, 99, 103, 106, 121
- Store 122

- value chain 23, 24, 30, 37
- management 31
- vending machines 20, 52, 72, 73, 76, 139
- see also* self-service

- Wal-Mart Stores Inc. 106–7
- Walmart 36, 58, 74, 75
- B2C–B2C2C change 107
- Wang, Xiaofang 97, 112
- warehousing 23, 24, 25, 27, 29, 110
- Amazon.com 82
- changes in 50, 124–5, 133, 144
- crowdsourcing, and 9
- Flipkart 86
- JD.com 85–6
- operations 51
- outsourcing 56
- picking and packing 33
 - automated 35, 71
 - voice 71
- track and trace 71, 104
- types of 95
- Wegolook 81
- Weng, Dongdong 97, 112
- Wichmann, Jonathan 100–101, 103
- Wigan, Marcus 61
- Witt, Alice 90, 93
- Wittbrodt, Ben 61
- Wohlers Associates, 2013 survey 62
- Woolworths Ltd (Australia) 75
 - /eBay alliance 110–12
 - Simply Collect 111
- Woolworths (UK) 109
- World Wide Web 35, 41
- see also* Internet
- Wuhan 85, 127–8

- YouTube 9, 80
- Your Home Depot 110

- Zara, mass customization 40