

## Index

- \$300 house, 53, 142, 157
- abduction, 45, *See* retroduction
- Abouleish, Ibrahim, 114
- accessibility, 3, 178, 182
- activism  
   entrepreneurial, 15  
   grassroots, 124
- Acumen Fund, xxii
- adaptability, 3, 106, 178, 182
- affordability, 3, 27, 72–78, 92, 131  
   extreme, 4
- Africa, 152, 241
- Airbnb, 199
- Amoroso, L. M., 45, 74, 256
- Angaza SoLite, 140
- Ansari XPrize, 66, 147
- Anudip, 34, 237
- Apple, 115
- Aravind Eye Hospital, 49, 66, 115
- Arbutus DrillCover, 162–170
- archival documents, 33, 39–41, 74, 236
- Asia, 152, 241
- Banerjee, 229
- Bangalore, 156, 172
- Bangladesh, 123, 135
- Basu, Radha, 154, 172, 181–182, 229
- Bates, S. M., 19
- Belgium, xxiii
- Bespoke Innovations, 184
- Bhatti, Yasser, xxi
- BoP (bottom of the pyramid), 6, 14, 28, 52, 54,  
   64, 115, 119, 124
- Boston's Children Hospital, 156
- Bound, K., 169, 173
- boundary  
   issues, 73, 92  
   object, 39, 64, 107, 183  
   spaces, 108
- Bower, 126
- BRAC, 123
- bricolage, 113, 159, 170, 182
- Brown, T., 126, 158, 184
- Build Change, 87, 139–140
- Burg, E., 26
- business plan, 32–34, 42, 213
- Business Source Complete, 19
- California, 34, 237
- Cameron, H., 17
- Canada, 142, 171, 241
- Center for Technology Studies at Santa Clara  
   University, 33
- Centre for Technology Studies at Santa Clara  
   University, 237
- challenge, 3, 10, 40–42, 46, 50, 60, 67, 106,  
   109, 146–147, 149, 157  
   double, 10  
   institutional, 3, 36, 80, 190  
   resource, 3, 36, 80, 190
- China, 175, 185
- Christensen, Clayton, 126, 162
- Cleveland Clinic, 156
- coding, 39–45, 47, 73–79, 210, 258  
   a priori, 45  
   inductive, 45  
   thematic, 37, 217
- Cohen, L., 33, 236
- complexity, 30, 151, 166, 192, 200  
   institutional, 3, 204
- conceptual framework, 25
- conceptualisation, 24, 30, 33
- constraint, 36, 49, 52, 108, 119, 129, 132,  
   189–195, 209  
   affordability, 73, 108, 147, 149, 177–178  
   resource, 12–13, 19, 26, 28, 75, 84–97, 109,  
   129
- contingency perspective, 25, 29
- contingency theory, 25
- cost leadership, 40, 44, 60, 67, 145, 180,  
   218

- CRESSI, 205  
 cross-sector collaboration, 63
- D.School, 34, 237  
 dabbawalas, 67, 150–152  
 Darzi, Lord Ara of Denham, 203  
 DEA-Stanford community, 260  
 Desa, G., 20, 113  
 Design and Engineering, xxii  
 developed markets, 3, 36, 145, 162–163, 166, 177, 185, 188, 190, 193, 198, 200–201  
 developing markets, 93, 114, 132, 135, 137, 139, 145, 159, 164, 169, 177, 204, 238  
 Development Studies, xxii  
 Diamandis, P., 59  
 DiMaggio, P. J., 28  
 D-Light, 34, 238  
 Dorado, Sylvia, 207  
 Dutz, M. A., 169
- EasyPaiza, 67, 127, 142, 153  
 Ebay, 128, 197–198  
 Economist (journal), 21  
 ecosystem, 16, 158, 173  
 EDEA, 34–35, 237  
 Egypt, 114  
 EKO, 128  
 El Salvador, 85, 137  
 Embrace, 34, 145, 238  
 EnterpriseWorks, 135, 140  
 entrepreneur(ship), 20, 48, 79, 105, 112, 126, 188  
   commercial, 10, 212  
   development, 187  
   mainstream, 3, 5, 15, 106, 194, 217  
   social, 3, 9, 11, 15, 17, 38, 61, 68, 70–71, 99, 106, 114, 237, 255  
 E-Trade, 128  
 European Commission Directorate-General of Research and Innovation, 203  
 extreme environments, 119, 124, 183, 192, 194
- Fagerberg, D. C., 10, 12  
 FIL (Frugal Innovation Lab), 62, 172, 182, 220, 229–230  
 Finland, 203  
 Fisscher, O, 168  
 Forbes Magazine, 151
- Foster, P., 146  
 Foucault, 16  
 Foundation, T. Y., 18  
 foundational logic, 25  
 Fraunhofer ISI, 206  
 frugality, 37, 88, 135, 151, 155, 169, 201
- gap  
   infrastructure, 164–165  
   needs, 163  
   performance, 165  
   preferences, 163  
   regulatory, 165  
   sustainability, 165
- Gassmann, O., 175  
 General Electric, 67, 144, 172, 176, 201  
 George, G., 169, 175  
 Ghana, 126  
 Ghaziani, A., 45  
 Ghosn, Carlos, 174  
 glocalisation, 145, 164  
 Goffman, E., 210  
 Google, 149  
 Google Scholar, 162, 196  
 Govindarajan, Vijay, 162–164, 166, 174, 199  
 Grameen Bank, 66, 123, 141, 149  
 Grameen Foundation, xxiii  
 green technologies, 230, 232  
 grounded theory, 5, 33, 60, 190, 196, 207, 255  
 GSBI, 33, 35, 208–209, 237–239, 242–243, 246, 254, 259–260  
 Guba, E. G., 210  
 Guillén, M. F., 217  
 Gupta, A., 168
- Haertel, Carlos, 119, 201  
 Haier, 60  
 Hamalainen, T. J., 18  
 Haque, U., 121  
 Hart, S. L., 27  
 Hartigan, Pamela, xxiv  
 healthcare, 19, 156  
 Heiskala, R., 18  
 Helix Centre, 203  
 Herstatt, C., 175–176, 200  
 Hirsch, P. M., 9, 123  
 Hockerts, K., 130  
 Housesafe, 53, 137

## 310 INDEX

- housing, 3, 114–115, 132, 141–142, 157–158, 205, 250  
 Hughes, T. P., 126  
 hybrid approach, 71, 100, 129
- ICICI, 128  
 ICT, 29  
 Immelt, Jeffrey, 145, 185, 199  
 India, 53, 85, 87, 117, 127–128, 131, 142–143, 146, 156, 172, 175, 199–200, 202, 241, 267, 270, 285  
 informal sector, 167  
 infrastructure, 23, 29–30, 73, 93, 109, 127, 135–136, 152, 163–164, 200, 250  
   flexibility, 29  
 InnoFrugal, 203  
 innovation, 103  
   boot-camp, 33, 242, 246, 250, 259  
   challenge-based, 66, 69, 105, 143, 148, 155, 157, 212, 226  
   constraint-related, 47  
   cultural, 18  
   economic, 18  
   efficiency-based, 46, 59, 67, 143–144, 152, 163  
   frugal, 2–6, 21–23, 37, 61–70, 97, 99–100, 104, 108–110, 117, 128, 132–133, 150, 152, 162–183, 187, 191–195, 198–205, 213–215, 220, 225, 229–231  
   Ghandian, 9, 162  
   grassroots, 21, 159, 162, 167–168, 178, 264, 274  
   institutional, 77, 80, 82, 84–85, 92, 97–98, 103, 108, 110, 120–122, 125–126, 129–132, 135, 149–150, 152, 154–155, 157–158, 178, 188, 196–197, 206, 212, 215  
   market-based, 23  
   normative, 18  
   purposeful, 1, 11, 23, 35, 216  
   regulative, 18  
   reverse, 21, 36, 69, 145, 159, 162–164, 166, 169, 174, 176, 199, 218  
   Schumpeterian, 64, 110–113, 119, 125, 134–135, 219  
   social, 3, 6, 9, 13–20, 23, 35–36, 38, 46, 60, 62, 65, 69–70, 77, 81, 84, 92–99, 103, 105, 108–115, 120, 123–125, 127, 129–131, 133–134, 137, 143, 149, 155, 167, 181, 190, 193, 197–198, 202, 205, 212, 215–216, 218  
   technological, 108, 113, 115, 126, 131, 178, 191, 198  
   technology, 126  
   user-based, 53, 67, 105, 149, 151, 193  
 Innovation Centre Denmark, 203  
 Innovation Model 1, 103, 142–143, 149, 152, 155, 157, 191, 212, 217, 227  
 Innovation Model 2, 103, 142–143, 149, 152, 155, 157, 177, 191, 212, 217  
 innovation studies, 6, 9, 24, 72, 100, 108, 195, 202  
 innovative leadership, 17  
 institutional analysis, 124  
 International Monetary Fund, 153
- Jaipur/ReMotion Knee, 34, 115, 238  
 Japan, xxii  
 Jarvis, O., 12  
*jugaad*, 6, 9, 21, 47, 53, 60–61, 69, 85, 89, 139, 159, 162, 169–170, 172, 177
- Kahneman, Daniel, 196  
 Kay, Luciano, 66, 148  
 Kenya, 120, 127–128, 140, 142, 152–154  
 King, B. G., 43  
 Kiva, 34, 89, 138, 237  
 Kotler, S., 59
- Latour, B., 213  
 Lawrence, P. R., 25, 201  
 lens, 64, 178  
   functional, 64, 178  
   institutional, 64, 178  
   process, 64, 178  
   RBV, 29
- Leonard-Barton, D., 192  
 Letty, B., 167  
 Levin, 9  
 Lévi-Strauss, C., 113  
 Lim, K., 131  
 Lincoln, Y. S., 210  
 Logitech, 166  
 London, T., 27  
 Looise, K., 168  
 Lorsch, J. W., 25, 201  
 Lounsbury, M., 11, 123  
 lowcal (local and low cost), 127, 154  
 Lyon, F., 17

- Mahindra, Anand, 170  
 Mair, J., 11, 15–16, 27, 72, 123, 130  
 Malhotra, P., 146  
 Manion, L., 236  
 market mechanisms, 29  
 Marti, I., 10, 12, 22  
 Mashelkar, R. A., 147, 170  
 Mayer, Colin, 152–154  
 McKinsey, 196  
 McMullen, J. S., 121, 187  
 Medicare, 199  
 meso-level observation, 32  
 microfinance, 123, 127, 138, 150, 153–154  
 micro-level observation, 1, 32  
 MIT Media Lab, 149  
 MIT OpenCourseWare, 34, 237  
 MNCs (multinational corporations), 12, 22,  
 48, 58, 69, 94, 129, 137, 141, 146  
 MNEs (multinational enterprises), 163  
 mobile banking, 127, 152–155, 163  
 model  
   econometric, 30  
   economic, 31, 128  
 Mojave Aerospace Ventures, 148  
 Monaghan, A., 167  
 Moore, Karl, 92, 150–151  
 Mort, G. S., 60, 255  
 motivation, 70, 103, 157, 181  
 M-Pesa, 127, 142, 152  
 Mumbai, 67, 150–151  
 Murdock, A., 11, 16, 18, 65  
 Musk, Elon, xxii
- Namperumalsamy, P., 144  
 Narayana Hrudayalaya Cardiac Hospital, 66,  
 141–142, 155  
 narrative, 25, 38, 70  
 NASA, 4, 57, 90, 148, 188  
 Nazava, 48  
 Negroponte, Nicholas, 149  
 Nepal, 145  
 NESTA, 21, 173, 203, 206, 267  
 NGO, 92, 125  
 Nicaragua, 85, 137  
 Nicholls, A., 11, 16, 60  
 Nijhof, A., 168  
 Nissan, 21, 174  
 Nobel Peace Prize, 123  
 Nordic Frugal Innovation Society, 203  
 North, D. C., 28
- Northrop Grumman Lunar Lander  
   Challenge, 66  
 Novogratz  
   Jacqueline, xxii
- object of study, 25, 34, 238  
 OLPC, 57, 60, 89, 142, 149  
 Omidyar, 197  
 One Laptop per Child, 66, 142, 149  
 organisation theory, 3, 11, 35, 216  
 Oxford University, 150, 242, 244
- P and G, 166  
 Pakistan, 127–128, 132, 142, 153, 266  
 paradox resolution theory, 104–105, 111,  
 119, 125, 130, 192  
 Partners in Health, 166  
 Paypal, 197  
 Pepsico, 166  
 Perrini, F., 15–16, 23, 217  
 philanthropy, 4  
 Phills, J., 113–114  
 pillar  
   cultural-cognitive, 28  
   normative, 28  
   regulative, 28  
 Plumgear, 199  
 Poole, M. S., 104–105, 119, 124, 192  
 Porter, Michael, 26, 67, 108  
 poverty, 113–114, 140, 150, 153, 158, 167  
   energy, 232  
 Powell, W. W., 28, 43  
 Prabhu, J., 176  
 Prahalad, C. K., 15, 114, 147, 162, 170  
 proof of concept, 59, 61, 66, 149, 157, 181,  
 193, 197, 228  
 Proquest, 19
- radio telecenter model, 98  
 Radjou, N., 169, 176  
 Ragin, C., 33, 44, 74, 195, 207, 256  
 Ramamurti, R., 162, 199  
 Rao, H., 175  
 Renner, M., 43  
 resource scarcity, 1, 6, 10–11, 14–15,  
 19–20, 24–25, 29, 31–32, 38, 70–71,  
 73–76, 80, 82, 84, 98, 107, 133,  
 163–164, 177, 189–191, 196, 209, 216,  
 234  
 resource-based view (RBV), 29

## 312 INDEX

- retroduction, 4, 33, 36, 44, 190, 195, 207, 236, 256  
 Rickshaw Bank project, 131  
 Robinson, J., 130, 219  
 Rockefeller Foundation, xxiii  
 Roper, S., 12  
 rural communities, 167, 231  
 Russian Space Agency, 148
- Sadler, Joel, 115  
 Saïd Business School, xxi, xxiv  
 San Francisco, 199, 264, 289  
 Santa Clara, 53, 137  
 Santa Clara University, 172, 229, 239, 243  
 Sarasvathy, S. D., 121, 217  
 Sarkar, Christian, 157  
 Sarmah, P. K., 131  
 scalability, 40, 44–46, 52, 59, 61, 65, 67, 134, 181, 186, 193, 227, 229  
 Scaled Composites, 148  
 Scandinavia, 203–204  
 Schumpeter, J., 111, 219  
 Schwab Foundation for Social Entrepreneurship, xxiv  
 Scojo Foundation, 139  
 S-curve, 214  
 Sekem Initiative, 114  
 Self-Help, 132  
 SERCO Institute, 21, 173  
 Seyfang, G., 115, 130, 168  
 Shane, S., 130  
 Shetty, Devi, 155–156  
 Silicon Valley, 33, 53, 58, 87, 90, 137, 197, 207, 237, 249  
 Sinha, Abhishek, 128  
 Skoll World Forum on Social Entrepreneurship, 16  
 SMEs, 27, 53  
 Smith, A., 168  
 Smith, Adam, 155  
 social enterprises, 9, 15–17, 23, 34, 49, 63, 90, 113, 121, 137, 141, 177, 217, 238, 249  
 Social Innovation Generation, xxiii  
 social movement theory, 124, 126, 186  
 Social Science Research Network (SSRN), 211  
 Solar Sister entrepreneurs, 90, 125, 232  
 Solvatten, 48  
 Space X prize, 66, 142, 147  
 Sri Lanka, 146  
 Stanford Social Innovation Review, 113  
 Stanford University, 34, 237  
 Stewart, Rosemary, 213  
 Strategy and Innovation, xxii  
 Subramanian, E., 29  
 Sudan, 91, 134  
 Summitt, Scott, 184  
 sustainability, 48, 56, 91, 98, 106, 109, 113, 151, 163, 229, 250  
 Sweeny, E. G., 229  
 Switzerland, xxiii  
 systematic literature review, 22
- Tameer, 153  
 TATA conglomerate, 146  
 Tata Motors, 146  
 Tata Nano car, 55, 60, 66, 139, 142, 146  
 Tata, Ratan, 146  
 Tekes, 203  
 Telenor, 127, 153  
 Tesla Motors, xxii  
 thematic content analysis (TCA), 33  
 Thornton, I., 169  
 Thrive, 34, 237  
 Thun, E., 200  
 Time magazine, 116  
 Tiwari, R., 175–176, 200  
 Tongia, R., 29  
 Topol, Eric, 128  
 Toughstuff, 34, 237  
 Tracey, P., 12  
 Trans-Atlantic Doctorial Conference, 211  
 transportation, 3, 30, 141–142, 146, 167, 205, 230  
 triangulation, 41, 79, 81, 111, 120, 125, 129, 210, 234, 259  
 Trimble, C., 145, 162–164, 174  
 Trochim, W. M., 211, 234  
 Tversky, A., 196
- Uber, 199  
 UK National Health Service, 199  
 underserved markets, 29, 31, 65, 141, 159  
 United Bank Omni, 127  
 United Kingdom, 21, 147, 153–154, 173, 199, 203, 266–267, 276  
 United States, 29, 48, 54, 57, 91, 128, 132, 134, 137, 139, 142, 144–145, 156, 184, 199, 241, 266  
 University of Oxford, xxi

- upstream and downstream activities, 25, 27–28, 72
- value-chain innovation perspective, 26, 28–29, 32, 68, 72–73, 204, 209
- Van de Ven, A. H., 104–105, 119, 122, 124, 192
- Venkataraman, S., 130
- Ventresca, Marc, 45, 123
- Virgin Galactic, 148, 295
- Vision Spring, 34, 238
- Vodafone, 153
- void
  - institutional, 1–2, 155, 158, 163–164, 177–178, 234
  - Institutional, 153
  - structural, 14
- Von Hippel, E., 60, 67
- Vurro, C., 15–16, 23, 217
- Weerawardena, J., 60, 255
- West, Jevin, 196
- Whirlwind Wheelchair, 34, 89, 237
- Widenmayer, B., 175
- Woodward, J., 25, 119, 201
- Woolridge, A., 163, 172, 199
- Wyatt, J., 126, 184
- Young Foundation, 18
- Yunus, Muhammad, 123, 150
- Zeng, M., 162
- Zeschky, M., 175
- Zipcar, 199