

Index

Italicized page numbers denote figures.

AANES (Autonomous Administration of North and East Syria), 199

Ace Hardware, 167, 168

agriculture

beginnings of, 17–18

climate change caused by, 96–99, 101

fixes-that-fail, 97

healthcare affected by, 144–145

sustainability in, 146–148

See also regenerative agriculture

agroecology, 125, 147

See also ecology

air travel improvements, 154

Allende, Salvador, 198

anarcho-syndicalism, 159–160

anthropogenic climate change, 100

Antifragile (Taleb), 129

antifragility, 129–130, 159

antigravity technology, 154

archetypes

conflicting goals, 44, 85–87, 86

definition of, 43–44

fixes-that-fail, 35, 44, 92–94, 92, 97–98, 97

tragedy of the commons, 44, 102–104, 102

See also success-to-the-successful

Arizmendi Bakery, 166, 169

artificial intelligence (AI), 158

See also automation

artificial scarcity, 20–21, 69

Associated Press, 167

Aurayana Project, 180–181

automation

in agriculture, 147–148

as constructive element, 163–164

and cooperative growth, 171–172

governance through, 158, 163–164

in housing, 143, 148

and labor cost reduction, 85

sustainability through, 126–127

of unpleasant jobs, 188

of vehicles, 152–153

Autonomous Administration of North and East Syria (AANES), 199

awareness and public discourse, 173, 204–205

balancing feedback loops

conventional agriculture as, 97–98, 97

definition of, 47

greenhouse gases and climate change as, 102–104, 102

human population as, 47–48, 47

incarceration as, 92–93, 92

- industrial sectors as, 78–80, 78
- labor costs as, 86, 87
- strength of, 53–54
- See also* archetypes; reinforcing feedback loops
- Baptist, Edward, 90
- battery storage innovation, 156
- Beer, Stafford, 198
- biodiversity loss, 105–106
- BIPOC (Black, Indigenous, and People of Color), 193
- Black, Indigenous, and People of Color (BIPOC), 193
- Brookings Institution, 190
- capitalism
 - benefits of eliminating, 125
 - definition of, 21–22
 - destructive nature of, 191–192
 - ending of, 14, 37, 177–178
 - endless activity and growth in, 107, 137
 - energy consumption without, 154
 - external consequences of, 35–36, 77–78, 80, 118
 - fragility of, 129–130
 - governance without, 158–159
 - history and development of, 21–29
 - incentivizing exploitation, 107–108
 - inequality caused by, 64–67, 83
 - justice system reliance on, 94
 - as market economy, 62–64
 - overexpansion/overproduction in, 33–34
 - as racism's root, 91
 - as structural violence, 82
 - and time delays in climate change, 103–104
- Carpet One, 168
- causal loops. *See* reinforcing feedback loops
- Center for Cognitive Neuroscience (Duke University), 114
- Center for Compassion and Altruism Research and Education (Stanford University), 114
- change, effecting
 - communication of moneyless society principles, 202–206
 - organizational support, 206–207
 - resources repurposed, 208–209
 - skills developed through, 207–208
- chaotic production, 21
- chemicals in agriculture, 96–99, 101
 - See also* climate change
- Chile, 198
- circular production model, 149, 149
- circular/sustainable/closed-loop economy, 125, 164
- climate change
 - agriculture affecting, 96–99
 - definition of, 100
 - effects of, 103–106
 - global warming defined, 46
 - impacts on Syria, 81–82
 - pollution and, 99–103

- profit motive causing, 78–80
 - See also* ecology; environmental impacts; resource overshoot
- Clinton administration, 34
- closed-loop/circular/sustainable economy, 125, 164
- collaboration, 157–158, 171, 182
- commodification/commodity, 25–26, 31
- communal ownership, 138
- communism, 196–199
- communities
 - grassroots mobilization of, 174
 - and housing, 142–143
 - impoverished and underdeveloped, 86–87
 - lacking development funds, 93
 - preventative measures in, 144
 - sustainability of, 170–172, 181
- competition
 - cooperation vs., 59, 114–115
 - and growth, 28–29, 34
 - labor costs vs. low-price, 85–88
 - reduction of, 118–120
- conflicting goals, 44, 85–87, 86
- constructive elements
 - in automation and technology, 163–164
 - combination of, 170–172
 - cooperation and cooperatives as, 165–170
 - in sustainable economy, 164
 - universal basic goods and services as, 162–163
- consumer cooperatives, 168
- contribution and volunteerism, 140–141
- cooperation, 59, 114–115, 118, 165–171
 - See also* sustainability
- Cooperation Jackson (Mississippi), 166
- cooperatives (co-ops)
 - automated growth of, 171–172
 - building, 174–177
 - characteristics/types of, 167–169
 - definition of, 165
 - federations of, 166
 - in nonauthoritarian societies, 199–200
 - as sharing economy, 118–120
 - and universal basic goods and services (UBGS), 170–171
- copyrights, 20
- Corbyn, Jeremy, 203
- corporations
 - eliminating dependence on, 209
 - and growth, 28, 107
 - as housing cooperatives, 168
 - incarceration and prison labor, 92, 94
 - lobbying and resources, 159
 - and private property, 27
 - response to healthcare, 73
- cotton market, 89–90
- credit unions, 168
- crime reduction, 144, 145–146

crisis cycles, 33–35
 cryptocurrencies, 193–194
 See also economics
 cultural considerations, 147, 178, 199
 currency. *See* money

 Darwin, Charles, 114, 115
Dawn of Everything, The (Graeber and Wengrow), 17
 debate, socially acceptable, 202–205
 deforestation, 101
 See also agriculture; climate change
 degrowth/post growth (in economics), 125, 130
 democratic confederalism, 199
 derivatives (financial), 31
 See also economics
Descent of Man, The (Darwin), 115
 desertification, 96–97
 See also climate change
 disruption, societal, 87, 103
Drive: The Surprising Truth about What Motivates Us (Pink), 187
 drug war, 91–92
 Duke University (Center for Cognitive Neuroscience), 114
 dystopia, 134

 ecology, 32–33, 124–126, 130
 See also climate change
 "Economic Calculation in a Natural Law/Resource-Based Economy" (Joseph), 195
 economics
 antifragility of, 130
 circular/sustainable/closed-loop nature of, 125, 164
 destructive cycles in, 99
 disruptions in, 87, 103
 environmental interconnectivity of, 105–106
 planning of, 21
 See also capitalism; cryptocurrencies; derivatives (financial); financial institutions; growth; monetary system
 ecosystem destruction, 105–106
 education, 142, 204–205, 208
 Eisenstein, Charles, 112
 El Hierro, Canary Islands, 156
 Eliot, T.S., 11
 employment. *See* jobs; labor
 Enclosure Acts, 22–23, 26, 28
 enclosures (fences), 22–23
 energy, renewable, 154–156
 See also sustainability
 environmental impacts, 36–37, 78–80, 103
 See also climate change
 equality, 121, 122
 equity, 121, 122, 169–170
 Eroski (Spanish supermarket), 168, 170
 European refugee crisis, 81–82
 Evergreen Cooperatives of Cleveland (Ohio), 166, 169
 exchange value (price), 32, 194–196

experience vs. ownership, 113
exploitation, 24–25, 28
externalities (outside effects/consequences), 35–36, 77–78, 80, 118
Exxon, 100

false models, 63
FarmBot (automated system), 148
farming. *See* agriculture
FDR (Franklin Delano Roosevelt), 30
Federal Reserve, 34–35
feedback loops. *See* reinforcing feedback loops
fences (enclosures), 22–23
fiat currency, 31
financial crisis of 2007-2008, 34–35
financial institutions, 35
fixes-that-fail, 35, 44, 92–94, 92, 97–98, 97
"flipping" houses for profit, 69–70
floating fiat currency system, 31
Floyd, George, 55
fluorocarbons, 101
food quality improvements, 144–145
food scarcity, 190
for-profit business model, 19, 94
fossil fuels, 101, 102, 154
free market, 192
free time, 137–138
freedom, 127–129
Fresco, Jacque, 178–179
Fuller, R. Buckminster, 133

Gallup, 188
gentrification, 69
GHG (greenhouse gases). *See* greenhouse gases (GHG)
Gibson, William, 109
Glass-Steagall Act (1933), 34
Global Village Construction Set (GVCS), 182
global warming. *See* climate change
globalization
 cooperative communities in, 172
 ecosystems cooperation in, 115
 energy in, 155–156
gold standard, 30
governance, 157–160, 163–164, 195–196
Graeber, David, 17, 127
Grant, Travis, 180
grassroots mobilization, 174
gravity as energy source, 156
greenhouse gases (GHG), 46, 98–104, 102
 See also climate change
growth
 of automated cooperatives, 171–172
 in capitalism/competition, 28–29, 33–34
 of corporations, 28, 107

- population, 46–48, 46, 47
- post growth/degrowth, 125, 130
- GVCS (Global Village Construction Set), 182

Half Has Never Been Told, The (Baptist), 90

Hare, Brian, 114

Hawking, Stephen, 161

healthcare

- agriculture effects on, 144–145

- food choices impacting, 49

- labor market in, 140, 141

- leverage points in, 57–59

- profits influencing, 70–73

- workload relief in, 145

hemp, 149–150

hierarchy of needs, 186

highest good of all, 117–118

hoarding, 36, 69

holistic wellness systems, 144–146

homelessness, 69, 84–85

housing

- cooperatives for, 168

- profits influencing, 67–70

- reinforcing feedback loop in, 68

- resource scarcity impacting, 190

- for sustainable communities, 142–143, 148

How Wolves Change Rivers (Sustainable Human video), 49

human development, early, 17–18

human value, 32

hypoxia (climate related), 98–99

ICPH (Institute for Children, Poverty, & Homelessness), 84

impoverished communities, 86–87

incarceration, 91–94, 92

"The Incredible Shrinking Overton Window" (Johnstone), 203–204

industrial sectors

- balancing of, 78–80, 78

- efficiency of, 180

- history of, 23

- profits influencing, 74–77, 74

inequality

- capitalism creating, 83

- climate change increasing, 104

- definition of, 121, 122

- effects of, 2

- as externality category, 36

- poverty causing, 84–88

- systemic nature of, 64–67

- in the United States (2016), 190

information

- access to, 54

- manipulation of, 192–193

- open-source (sharing), 119–120

infrastructure, 176
 Institute for Children, Poverty, & Homelessness (ICPH), 84
 Institute for the Study of International Development (McGill University), 82
 interconnectedness, 35, 42–43, 135, 136, 159
 International Cooperative Alliance, 166
 Internet of things (IoT), 150, 152, 163–164
 interoperability in product design, 151
 investing incentives

- in healthcare systems, 70–73
- in housing markets, 67–69
- in industrial sectors, 74–77
- inequality caused by, 83
- in labor markets, 63–66
- profitable vs. sustainable products, 78–80
- See also* profit motive

 Jakubowski, Marcin, 182
 jobs, 127, 141, 188

- See also* labor

 Jobs, Steve, 13
 Johnstone, Caitlin, 203
 Joseph, Peter, 7, 179–180, 195
 justice, 93–94, 121–124, 122

Keltner, Dacher, 115
 Kendzior, Sarah, 61
 King, Martin Luther, Jr., 111
 Kurdi, Alan, 81

labor

- commodification of, 25–26
- costs as cause of poverty, 85–87, 86
- exploitation of, 24–25
- history of, 15–16, 22–23
- market of, 62–67, 65, 140, 141
- motivation for and contribution of, 139–142, 186–188
- and property, 26, 28
- volunteerism and choice in, 128–129
- See also* jobs

 land, 25–26
 Land O'Lakes, 167
 laziness, 188–189
 leverage points in systems theory, 52–59
 liberty, 127–129
 localization, 143, 147, 148–151

- See also* sustainability

 low-price competition, 85–88

machine production capacity, 24
 Magnova.space, 183
 Manhattan Institute, 87
 manufacturing, 148–151, 195–196
 Marcus Aurelius, 209

Marinaleda (Spain), 198
 market economies, 62–64, 62
 Marlow, Zachary, 8
 Maslow, Abraham, 186, 189
 McGill University (Institute for the Study of International Development), 82
 Meadows, Donella, 39, 52, 56
 means of production, 25–26, 63
 media distractions, 204
 medical system. *See* healthcare
 Medicare for All, 58
 Mesopotamia, 18
 millennials, 173, 188
 modularity in product design, 151
 Mondragon Corporation, 168, 170
 monetary system
 cooperation and empathy, loss of, 115
 core problems of, 2–3
 obsolescence of, 116–117, 177
 profit incentive and, 19
 reliance upon, 60
 See also capitalism; economics; money
 money
 history of, 18, 30–31
 and incentives, 185–188
 obsolescence of, 116–117, 177
 positive reinforcement replacing, 139, 186
 value of, 111
 See also capitalism; cryptocurrencies; monetary system
 Moneyless Society, 8, 182–183, 205, 206
 moneyless society
 communist/socialist elements of, 197
 components of an equitable, operational, 136
 discourse and spreading awareness of, 173, 204–205
 foundations of, 162–172
 governance in, 157–160
 overview of, 4
 transition to, 172–178
 See also monetary system; money; moneyless system, principles of; objections to moneyless society
 moneyless system, principles of
 antifragility, 129–130
 cooperative/sharing economy, 118–120
 ecological balance, 124–126
 highest good of all, 117–118
 liberty and freedom, 127–129
 science and technology, 126–127
 social justice, 121–124
 See also monetary system; money; moneyless society
 monoculture, 96–97
More Beautiful World Our Hearts Know Is Possible, The (Eisenstein), 112
 movements (transitional), 178–183
 Mutual of Omaha, 168

 natural law resource-based economy (NLRBE), 180

negative feedback loops. *See* balancing feedback loops
 Neolithic Revolution, 17
 Nixon administration, 30–31, 198
 NLRBE (natural law resource-based economy), 180
 nonauthoritarian cooperative society, 199–200

objections to moneyless society

- capitalism works better, 191–192
- communism/socialism, 196–200
- cryptocurrencies as solution, 193–194
- free market solution, 192–193
- laziness, 188–189
- monetary incentive, 185–188
- and the price mechanism, 194–196
- resource scarcity, 189–190

Obomsawin, Alanis, 81
 ocean dead zones, 98–99
 Ocean Spray, 167
 oligarchic propaganda, 204
 on-demand manufacturing, 150–151
 One Community Global, 181, 208
 Open Source Ecology (OSE), 182
 open-source concepts, 119–120, 151, 182
 operant conditioning. *See* positive reinforcement
 organizations (transitional), 178–183
 OSE (Open Source Ecology), 182
 outsourcing labor, 85–87
 Overton window, 202–205

ownership

- communal, 138
- experience vs., 113
- misconception of, 111–112
- obsolescence of, 120
- and property, 26–28
- and worker relations, 66–67
- by workers, 166–167

paradigms of systems (in systems theory), 55–56
 parking lots, 153
 patents, 20
 paywalls, 20
 peasants, 22–23
 personal property, 27
 pharmaceuticals, 145
 Pink, Daniel (*Drive*), 187
 Pinochet, Augusto, 198
 planned obsolescence, 20–21
 plutocratic narrative of change, 203–204
 political manipulation, 100
 pollution, 98–104
See also climate change
 population, 46–48, 46, 47, 123–124
 positive feedback loops. *See* reinforcing feedback loops

positive reinforcement
 as catalyst for prosperity, 141
 principle of, 19, 45
 replacing money as incentive, 139–140, 186
 post growth/degrowth (in economics), 125, 130
 post-scarcity society/economy, 116
 poverty, 84–88
 See also inequality
 preventative healthcare, 144–146
 price, 32, 194–196
 prison systems, 92–94
 private property, 26–28, 138
 producer cooperatives, 167
 product design, 151
 production, 74–80, 74, 78
 profit
 and artificial scarcity, 20
 as commodity, 31
 definition of, 19
 elimination of, 138
 in healthcare, 71–73
 in housing, 67–70
 in industrial sectors, 74–77
 in market economies, 63–64
 See also profit motive
 profit motive
 absence of, 146–147, 151
 climate change caused by, 78–80
 and cryptocurrencies, 194
 fragility of, 129–130
 in free markets, 193
 inequality caused by, 83
 and poverty through labor costs, 84–88
 and prison systems, 94
 replaced by positive reinforcement, 139–140
 science and technology without, 126–127
 as social injustice, 121
 See also investing incentives; profit
 progress, shared, 140
 Project Cybersyn, 198
 property, 26–28, 138
 prosperity, 135–137, 136, 139
 protopia, 133–134
 public property, 27
 purchasing cooperatives, 168

 racism, 88–91
 RBE (resource-based economy), 179
 real property, 27
 reciprocity, 137–138
 Recreational Equipment, Inc. (REI), 168
 refugees, 81–82
 regenerative agriculture, 125, 147–148, 164

See also sustainability
 regenerative manufacturing, 149–150
 regionality, 148–149, 151
 See also sustainability
 regulations, 107, 192
 REI (Recreational Equipment, Inc.), 168
 reinforcing feedback loops
 circular production model, 149, 149
 conventional agriculture as, 97–98, 97
 definition of, 45
 gain of, 54
 greenhouse gases and climate change as, 102–104, 102
 healthcare system as, 70–73, 71
 housing market as, 67–70, 68
 human population as, 46–48, 46, 47
 incarceration as, 92–94, 92
 industrial sectors as, 74–76, 74, 78–80, 78
 labor costs as, 85–87, 86
 labor market as, 64–67, 65, 140–141, 140, 141
 market economy as, 62–63, 62
 See also archetypes; balancing feedback loops
 Reizinger, Elizabeth, 180
 renewable energy, 154–156
 See also sustainability
 resource overshoot
 biodiversity loss, 105–106
 definition of, 36–37, 95
 pollution and climate change, 99–104
 soil depletion and desertification, 96–99
 See also climate change; resources
 resource-based economy (RBE), 179
 resources
 allocation of (creating opportunities), 65–67
 growth and competition of, 28–29
 repurposing existing, 208–209
 sustainability of, 148–149
 wasting of, 76–77
 See also resource overshoot; sustainability
 retail cooperatives, 168
 retrofitting/repurposing, 143, 148, 208–209
 Rojava (Syria), 199
 Roosevelt, Franklin Delano (FDR), 30
 rules of systems (as in systems theory), 54
 runaway feedback loops, 78, 100
 See also climate change
Rust Belt Cities and Their Burden of Legacy Costs (Manhattan Institute), 87
 Rust Belt (U.S. region Midwest to Northeast), 87

 Sabol, Jae, 181
 Saghir, Jamal, 82
 Sanders, Bernie, 58, 202
 scarcity, 20–21, 69, 116, 190
 Schmachtenberger, Daniel, 201

science, technology, engineering, math (STEM), 207–208
 science and technology, 126–127
 See also technology
 scientific categorization (European Enlightenment), 89
Selection in Relation to Sex (Darwin), 115
 selflessness, transcendence of, 189
 Seppälä, Emma M., 114
 shared service cooperatives, 168
 sharing/cooperative economy, 118–120
 See also sustainability
 Shaw, George Bernard, 185
 silvopasture, 147
 slave trade, 89–90
 smart infrastructure, 176
 social cooperatives, 168–169
 social justice, 121–124, 122
 socialism, 196–199
 socially acceptable debate, 202–205
 societal systems
 collapse of, 5–6
 disruption of, 78–80, 87, 103
 diversity of, 199–200
 evolution of, 13–14
 future development of, 180–181
 past vs. present, 198
 The Society Library, 157–158, 159
 sociocracy, 159
 soil depletion, 96–98
 See also climate change
 Soviet Union, 197
 Spencer, Herbert, 115
 Stanford University (Center for Compassion and Altruism), 114
 STEM (science, technology, engineering, math), 207–208
 stranded asset, 143, 148, 208–209
 structural violence, 82
 success-to-the-successful
 definition of, 43–44
 elimination of, 138
 in healthcare, 70–73, 71
 in housing, 67–70, 68
 in industrial sectors, 74–76, 74, 78–80, 78
 in labor market, 64–67, 65
 See also archetypes
 Sumer (Mesopotamia), 18
 Sunkist, 167
 surplus, 17–18, 24, 63–64
 survival of the fittest, 114–115
Survival of the Friendliest (Hare, Woods), 114
 survival of the kindest, 115
 sustainability
 in agriculture, 146–148
 automation creating, 126–127
 as circular/closed-loop economy, 164
 in communities, 170–172, 181

- ecological balance through, 125–126
- in housing, 142–143
- improvements towards, 209–210
- in manufacturing, 148–152
- movements and organizations in, 178–183
- product profitability vs., 74–80, 74, 78
- See also* cooperation; localization; regenerative agriculture; regionality; renewable energy; transitions; transportation
- Sustainable Human, 49
- sustain.org, 142
- Syrian refugee crisis, 81–82
- system structures (as in systems theory), 54–55
- systemic racism, 88–91
- systemic reciprocity, 137–138
- systems diagram, 46–48
- systems in society, types of, 14
- systems theory
 - analysis, synthesis, and emergence in, 51
 - archetypes in, 43–44
 - cascade effects in, 48–49
 - causality and feedback loops, 45–48
 - counterintuitive results in, 49–50
 - definition of, 39–40
 - interconnectedness and patterns in, 42–44
 - leverage points in, 52–59
 - limitations of, 40
 - stocks and flows in, 50–51, 52–53
 - types of (progression of), 41–42
 - See also* reinforcing feedback loops
- systems thinking. *See* systems theory

- Taleb, Nassim Nicholas, 129
- technology
 - advancements in, 14
 - constructive element of, 163–164
 - open-source, 151
 - participatory governance through, 157–158, 195–196
 - past vs. present comparison, 197
 - and science, 126–127
- time delays, 53, 93, 103–104
- tipping points, 101, 175
 - See also* climate change
- trade, 17–18, 22, 30–31, 137, 164
- traffic reduction and safety, 152–153
- tragedy of the commons, 44, 102–104, 102
- transaction methods, 31
- transactional reciprocity, 137
- transcendent selflessness, 189
- transitions, 134, 172–178, 178–183, 188
- transportation, 76–77, 152–154
- Turkey (Republic of Türkiye), 82

- UBGS (universal basic goods and services). *See* universal basic goods and services (UBGS)

UBI (universal basic income), 120, 163
underdeveloped communities, 86–87
unintentional scarcity, 21
Union of Soviet Socialist Republics (USSR), 197
universal basic goods and services (UBGS)
 as constructive element, 162–163
 cooperatives and, 170–171
 crime reduction and, 145–146
 definition of, 120
 expansion of, 172
 improving health/wellness through, 145
 prosperity and, 135, 136, 139, 200
 in transition stages, 174–177
universal basic income (UBI), 120, 163
use value (utility), 32
USSR (Union of Soviet Socialist Republics), 197
utility (use value), 32
utopia, 133

value, 16, 24, 32–33
vehicles, 152–153, 156
Venus, Florida, 178
Venus Project, 7, 178–179, 180
volunteerism and contribution, 140–141

wage reduction, 85–86
waste production, 36–37, 95, 149
wealth, 2, 22–23, 64–67, 190
 See also capitalism
wellness and prevention, 144–146
Wengrow, David, 17
White superiority, 89–90
Wilberforce, William, 1
window of discourse, 202–205
Woods, Vanessa, 114
wool trade, 22–23
work. *See* jobs; labor
workers, 66–67, 166–167, 169–170
workload reduction, 141–142

Zeitgeist: Addendum (Joseph), 7, 179
The *Zeitgeist* Movement (TZM), 179–180
Zeitgeist: The Movie (Joseph), 179
zoning ordinances, 20