

Index

Note: page numbers in italics indicate figures and tables.

- Acceleration
 - of change, 27, 34
 - technological, 88
- Action dialogues, 91–92, 123
- Africa
 - data globalization and, 1, 10
 - open access in, 60
 - southern, 55, 60 (*see also* South Africa)
- Aghazadeh, Sarah, 5
- Allen, Darcy, 76
- ArXiv, 8, 73, 82
- Athena SWAN Charter, 8, 40
- Attenborough, David, 90

- Ball, Joanna, 95
- Baran, Paul, 88, 89
- Barnett, Antony, 60
- Bernhard, Michael, 128
- Bhopal, Kalwant, 40
- Blockchain, 76, 96–97, 126
- Boberg, Svenja, 21
- Budapest Open Access Initiative, 100

- Cambridge Analytica, 27, 69
- Canadian International Development Research Center, 124
- Celebrity, 90
- Censorship, 27, 93, 127, 128
- Center for Open Science, 116
- Change, model of, 114–115
- Chaos, institutional, 12, 13–14
 - fear of, 17
 - knowledge systems and, 17, 31, 45, 58, 99, 124, 125, 130
- Childcare, 121
- China
 - economics, 64
 - government, 3
 - language, 90
 - open-access journals, 56
- China Academic Library and Information System, 93
- Collins, Harry, 20
- Committee on Institutional Cooperation (US), 93

160 Index

- Common knowledge, xi, 44
 - pool, 38–39, 42, 44, 133–134
- Common pool resource, 135
 - knowledge as, 19, 24, 25, 36, 136
 - network as, 37, 126
- Communication
 - as key theme of OKIs, 45, 79, 116, 120
 - network, 101
 - online, 12
 - scholarly, 2, 8, 9, 43, 56, 73, 80, 109
- Conflict, 11, 13, 20, 28
 - circumscribed, 101
 - communal, 90
 - of interest, 59
 - staged, 100, 130
- Consent
 - informed, 59, 70
 - portable, 59–61
- Consistency, 82, 99, 100, 101, 103
- Consortium/consortia, 23–24, 93, 94
- Cook, Katy, 127–128
- Coordination
 - failure, 28
 - as key theme of OKIs, 45, 67–78, 116, 120, 131–132
 - of knowledge, 23
 - mechanisms, 38
 - process, 130
 - and trust, 102, 103, 104
- Costa Maia, Leonor, 57
- COVID-19 pandemic, 1–3, 7, 128
- Cox, Brian, 90
- Creative and performing arts, 7, 110
- Creative Commons, 15, 16, 63, 69
- Creative destruction, 11
- Creative diversity, xi
- Creative economy, x
- Creative pedagogies, 52
- Creative realities, 128
- Creative work, 79
- Creativity, 17, 60, 86, 87, 103
- Dark web, 127
- Digital Public Library of America (US), 94
- Diversity, 43, 103, 135
 - deficit, 116
 - dimensions of, 51–52
 - evaluation, 120
 - of funding, 109
 - indicator, 117–118
 - institutionalized, 19
 - as key theme of OKIs, 45, 47, 116, 120
 - open access and, 5, 119
 - policy, 100–101
 - technofix and, 127
 - Wikipedia and, 6–7
- Djankov, Simeon, 14
- Donoghue, Frank, 13
- Einstein, Albert, 90
- Europeana (portal), 94
- Evolution
 - of closure, 27, 72, 80, 132
 - of openness, 27, 133
 - of systems, 80, 124, 129
- Extance, Andy, 97
- Fake news, 21–22
- Fecher, Benedikt, 32
- Felski, Rita, 13
- Fitzpatrick, Kathleen, 131
- Freeman, Jo, 13
- Friesike, Sascha, 32
- Gamergate, 5
- Gardenswartz, Lee, 47
- Garfield, Eugene, 81
- German Excellence Initiative, 37–38
- Germany,
 - economics, 64
 - educational system, 33, 37
- Globalization, 1, 11, 27, 55
 - Global South, 6, 10, 112

- Good/s
 - club, 23, 102, 104, 135
 - economic (knowledge as), 23, 24, 25, 32, 39
 - private, 23, 24, 82, 137
 - public, 23, 24, 32, 137
- Habgood-Coote, Joshua, 22
- Harmsworth, Garth, 49
- Hartley, John, 13, 20–21, 130
- Haupt, Adam, 65
- Hawking, Stephen, 90
- Hess, Charlotte, 104
- Holmström, Bengt, 107
- Hughes, Laurie, 126
- Indicators, 81, 107, 136
 - of diversity, 53
 - systems, 53–54
 - as tools, 73–74
- Indigenous communities, 58, 59, 60, 70, 102
- Indigenous knowledge, 21–23, 28, 32, 49, 58–59, 60
- Indigenous partners, 61
- Innovation
 - commons, 128
 - distributed, 2, 132
 - Silicon Valley model of, 125
 - technological, 25, 126
- Institutional chaos. *See* Chaos, institutional
- Intellectual property, 20, 50, 77, 101, 104, 128
 - rights, 23
- InterPlanetary File System (IPFS; decentralized cloud storage), 97
- Jonkers, Koen, 9
- Katz, Daniel, 43
- Kauffman, Stuart, 14, 26–27, 125
- Keane, John, 128
- Kelly, Kevin, 90
- Khaki Sedigh, Ali, 113
- Knowledge, productive and connective, 20–21, 25, 26
- Knowledge Exchange, 20
- Knowledge production
 - closed, 35
 - economics, 17, 23
 - functions of, 69–71, 72
 - metrics, 81, 112
 - model of, 17, 79, 87, 88
 - networks, 47
 - nontraditional, 50
 - open, 50
 - participation in, 92
 - priorities, 105
 - processes, 4, 87
 - social, 32, 45, 62
 - system, 130
 - technofix, 126
 - Western, 58
- Kramer, Adam, 70
- Krämer, Katrina, 6
- Krieger, Anja, 38
- Lakoff, George, 22
- Lam, Shyong, 6
- Lane, Allen, ix–x, 137
- Language game, 22
- Larivière, Vincent, 73, 76, 80, 82
- Leadership
 - civic, 128
 - costs of, 78
 - lack of diversity in, 62
 - moral, 35
 - by OKIs, 8, 61, 77, 104, 133
 - political, 105
- Lebel, Jean, 124
- Lee, Carole J., 81
- Li, David Daokui, 64

162 Index

- Library(ies)
 - access to, 8, 95, 117, 120
 - buildings, 7, 121
 - consortia, 9, 93
 - as customer, 82
 - public, 93
- Library Publishing Coalition, 9
- Lin, Songqing, 56
- Literacy, 20, 86
 - contemporary, 22
 - purposeless, 89
- Luo, Mr., 90

- Maracke, Catharina, 16
- Marginson, Simon, 37
- Marx, Karl, 77
- McCraw, Thomas, 11
- McKinsey Global Institute, 1
- Mediation
 - digital, 87–88
 - of knowledge, 5, 70, 88, 90, 96, 110, 111, 113
 - of research, 86–87
- Micro-meso-macro model, 20, 88, 94
- Modernity, 27
- Modern research, 43, 80
- Modern university, 33–34, 96
- Mokyr, Joel, 30, 33
- Montgomery, Lucy, 56
- Moore, Samuel, 32
- Morozov, Evgeny, 125–126

- Narrative
 - building, 104
 - of knowledge, 5
 - of open access, 56
 - organizational, 119
 - and policy, 114–115, 120, 122
- National Library of Medicine (US), 75
- Neylon, Cameron, 43, 57
- Noble, Safiya, 127–128
- Novak, Mikayla, 126

- Olson, Mancur, 102
- Open access, 136
 - in Africa, 60
 - Budapest Initiative, 100
 - in China, 56
 - and COVID-19, 2
 - gold, 84–85
 - as indicator, 117
 - in Latin America, 56–57, 123
 - libraries and, 9, 93, 95
 - mandate, 74, 83, 100
 - non-open access, undercut by, 73
 - policies, 5, 119–120, 121, 133
 - proportion of, in traditional publishing, 84–85
 - reach of, 86, 109
- Open Data Charter, 105
- Open science, 2, 116, 124
 - EU platform, 111
 - five schools of, 32
- Open society, 33, 126
- Open-source software, 3, 4–5, 8, 42, 76, 126–127, 136. *See also* Software
- Open universities, 36–37
- Open values, 22, 26
- Organization for Economic Cooperation and Development (OECD), 126
- Orthogonality, 112
- Ostrom, Elinor, 24, 104, 135

- Packer, Abel, 56
- Page, Scott, 47
- Pandemic populism, 21
- PatientsLikeMe, 4
- Pearson (publisher), ix–x
- Peer review, 11, 31, 34, 68, 82, 133
 - biases in, 81
 - open, 39
- Penguin Books, ix, 137
- Platform capitalism, 77
- Play, 21–22
 - playfulness, 89

- Poised system, 7, 12, 13–14, 17, 58, 125, 129, 130
- Poppe, Annika Elena, 130
- Popper, Karl, 33, 126
- Popularization, of knowledge, 87
 - popularizers, 79, 86, 90
- Possibility, 71
 - frontier, 14–15
 - space, 12
- Potts, Jason, 22, 128
- Prigogine, Ilya, 27
- Public funding, 8, 39, 41, 76–77, 127
 - as regulation, 74
- Public good. *See* Good/s, public
- Public interest, 24–26, 32, 39, 93, 137
 - deliberative, 25
 - institution, 107

- Rankings, 13, 38, 50, 96, 109–113, 133
- Ravetz, Jerome, 20
- Reach
 - of global indicators, 112
 - and impact, 110
 - population-wide, of old media, 12
 - of scholarship, 8, 63, 86–87
- Readings, Bill, 13
- Ren, Xiang, 56
- Republic of Letters, 80, 82
- Rhodes Must Fall movement, 62
- Robinson, Tony, 90

- Schiermeier, Quirin, 38
- Schlosser, Melanie, 9
- Schomberg, Rene von, 124
- SciELO (platform), 56, 57, 123
- Scopus, 109, 117
- Sen, Amartya, 24–25
- Shapin, Steven, 34
- Shirky, Clay, 30
- Smith, Arfon, 43

- Social media, 20, 21–22, 29, 69, 86, 87, 90, 96, 117
 - posts, 93
- Software
 - as academic output, 42–43
 - citation principles, 43
 - digital rights management, 27
- South Africa
 - hip-hop and diversity in, 65
 - racial imbalance in universities, 62
 - support for publications, 63 (*see also* Action dialogues)
- Stengers, Isabelle, 27
- Storj (decentralized cloud storage), 97
- Subsidiarity, principle of, 58, 67–68, 69, 72, 99, 102, 103, 119, 130, 137
- Sugimoto, Cassidy R., 9, 76, 90
- Swingler, Helen, 92

- Thunberg, Greta, 129
- Transparency, 3, 27, 56, 107
 - guidelines, 115–116
- Trove (Australia), 94
- Trust
 - building, 39, 55–61, 65, 103, 104
 - in institutions, 35
 - level of, 45, 102
 - in networks, 101
 - public, 36
- Tsvetkova, Milena, 6–7
- Tuhiwai Smith, Linda, 49
- “Tyranny of structurelessness,” 3, 13
- Tyson, Neil Degrasse, 90

- Uncertainty
 - accelerating, 34, 35
 - institutions and, 26, 35, 36
 - universities and, 17, 34–35, 38
 - zone, 14
- ur Rehman, Ikhtlaq, 27

- Vollmer, Timothy, 56

164 Index

Wagner, Caroline S., 9
Wallis, Todd, 38
Wikipedia, 5, 6–7, 126
Wilson, Francis, 91
Wilson, Katie, 7, 95, 121
Witschge, Tamara, 22
Woolf University, 96
Worthy, Ben, 126
Wouters, Paul, 43

This is a section of [doi:10.7551/mitpress/13614.001.0001](https://doi.org/10.7551/mitpress/13614.001.0001)

Open Knowledge Institutions

Reinventing Universities

By: Lucy Montgomery, John Hartley, Cameron Neylon, Malcolm Gillies, Eve Gray, Carsten Herrmann-Pillath, Chun-Kai (Karl) Huang, Joan Leach, Jason Potts, Xiang Ren, Katherine Skinner, Cassidy R. Sugimoto, Katie Wilson

Citation:

Open Knowledge Institutions: Reinventing Universities

By: Lucy Montgomery, John Hartley, Cameron Neylon, Malcolm Gillies, Eve Gray, Carsten Herrmann-Pillath, Chun-Kai (Karl) Huang, Joan Leach, Jason Potts, Xiang Ren, Katherine Skinner, Cassidy R. Sugimoto, Katie Wilson

DOI: [10.7551/mitpress/13614.001.0001](https://doi.org/10.7551/mitpress/13614.001.0001)

ISBN (electronic): 9780262365154

Publisher: The MIT Press

Published: 2021

The open access edition of this book was made possible by generous funding and support from MIT Libraries



The MIT Press

© 2021 Massachusetts Institute of Technology

This work is subject to a Creative Commons CC BY license. The open access edition of this book was made possible by generous funding from the MIT Libraries. Subject to such license, all rights are reserved.



The MIT Press would like to thank the anonymous peer reviewers who provided comments on drafts of this book. The generous work of academic experts is essential for establishing the authority and quality of our publications. We acknowledge with gratitude the contributions of these otherwise uncredited readers.

This book was set in Stone Serif and Stone Sans by Westchester Publishing Services.

Library of Congress Cataloging-in-Publication Data

Names: Montgomery, Lucy, 1980– author.

Title: Open knowledge institutions : reinventing universities /

Lucy Montgomery, John Hartley, Cameron Neylon, Malcolm Gillies,

Eve Gray, Carsten Herrmann-Pillath, Chun-Kai (Karl) Huang, Joan Leach, Jason

Potts, Xiang Ren, Katherine Skinner, Cassidy R. Sugimoto, Katie Wilson.

Description: Cambridge, Massachusetts : The MIT Press, 2021. |

Includes bibliographical references and index.

Identifiers: LCCN 2020029454 | ISBN 9780262542432 (paperback)

Subjects: LCSH: Education, Higher--Effect of technological innovations on. |

Internet in higher education. | Open learning. | MOOCs (Web-based instruction) |

Universities and colleges--Planning.

Classification: LCC LB2395.7 .M654 2021 | DDC 378.1/7344678--dc23

LC record available at <https://lccn.loc.gov/2020029454>