

Contributors

Editors

Matthew L. Smith

Matthew Smith, a busy father of three and husband of one, also happens to be senior program specialist in the Technology and Innovation program at Canada's International Development Research Centre (IDRC), where he supports research and innovations to address pressing global challenges. During his decade-plus at IDRC, he has supported a wide range of research for development projects across the information and communication technologies for development (ICT4D) spectrum, a central focus being on deepening our understanding of the potential and perils of openness in development. Before IDRC, Matthew received a PhD in information systems from the London School of Economics and Political Science (LSE), focused on the interaction between technology and society. Matthew also has an MSc in development studies from the LSE, as well as an MSc in artificial intelligence from the University of Edinburgh. He is the coeditor of the book *Open Development: Networked Innovations for International Development* [MIT Press and International Development Research Centre (IDRC), 2013], which preceded this volume. Matthew has written on a variety of topics, including critical realism, e-government, trust, digital learning innovations, the capabilities approach, and artificial intelligence and human development.

Ruhiya Kristine Seward

Ruhiya has worked in international development at both the policy and community levels for twenty years, focusing on issues of inclusion, participation, and digital technologies. As a senior program officer with the Networked Economies team at the International Development Research Centre (IDRC), she oversees a broad research portfolio on gender equality, cyber policy and governance, digital rights, and innovation in the Global South. Before joining IDRC in March 2015, Ruhiya worked with the United Nations Development Programme (UNDP) in New York on international issues related to information and communication technologies for development (ICT4D). Ruhiya has a PhD in comparative politics from the New School for Social Research and an MSc in international relations from the London School of Economics and Political Science (LSE).

Chapter Authors

Denisse Albornoz

Denisse Albornoz was a research associate at the Open and Collaborative Science in Development Network (OCSDNet) from 2015 to 2018. She holds a BA in international development and sociology from the University of Toronto. Her research and advocacy work in India, Canada, and Peru has looked at questions of power and inequality in knowledge production, science, technology, and education. In the past, she has worked with the Centre for Internet and Society in Bangalore, and she is currently working for Hiperderecho, a digital rights organization in Peru, where she investigates gender and technology, data justice, and feminist digital culture.

Chris Armstrong

Chris Armstrong is a senior research associate with the Open African Innovation Research (Open AIR) project at the University of Ottawa's Centre for Law, Technology and Society (CLTS). He is also a research associate at the LINK Centre, University of the Witwatersrand, Johannesburg. He has been part of Open AIR since its inception in 2010, and he served as research manager for Open AIR's precursor network, African Copyright and Access to Knowledge (ACA2K), from 2007 to 2010. Armstrong was one of the editors of the books *Access to Knowledge in Africa: The Role of Copyright* (University of Cape Town Press and IDRC, 2010) and *Innovation and Intellectual Property: Collaborative Dynamics in Africa* (University of Cape Town Press, 2014). He is Publishing Editor of the LINK Centre journal, *African Journal of Information and Communication*, and holds a PhD in media studies (University of the Witwatersrand), a master's in journalism (Carleton), and a Bachelor of Arts in political science and English literature (Queen's).

Savita Bailur

Savita is a research director at Caribou Digital, managing multicountry research on user experiences of digital technology in low-income environments. She has worked with organizations including UNICEF, UN Women, the World Wide Web Foundation (on an open data research project funded by the International Development Research Centre [IDRC]), mySociety, the World Bank (Global Governance Practice), Microsoft Research India, Commonwealth Secretariat, and the US Agency for International Development (USAID). Savita is an adjunct professor at the School of Public and International Affairs, Columbia University, where she teaches the course "Policies and Practices in Digital Development"; a visiting fellow at the Digital Life Institute, Cornell Tech; and a visiting fellow at the Media and Communications Department of the London School of Economics and Political Science (LSE). She had a previous academic career at LSE and the Global Development Institute, University of Manchester, and has a PhD and MSc in information systems from the LSE, as well as degrees from the University of London and University of Cambridge. She has several publications, including two World Bank publications: *Evaluating Digital Citizen Engagement: A Practical Guide* (2016) and *Closing the Feedback Loop: Can Technology Bridge the Accountability Gap?* (2014), and peer-reviewed papers in the *International Journal of Communication*, *Government Information Quarterly*, *Information Technology and International Development*, and *Gender, Technology, and Development*, among others.

Roxana Barrantes

Roxana is an economist, holding a PhD (1992) and MS (1989) from the University of Illinois at Urbana-Champaign and a Bachelor of Social Sciences (1984) from the Pontificia Universidad Católica del Perú. She is a professor with the Department of Economics at the Pontifical Catholic University of Peru (PUCP) and director of its Master's Program. Previously a researcher at Instituto de Estudios Peruanos, she was also on the steering committee of the Regional Dialogue on the Information Society (DIRSI), leading research on information and communication technologies (ICTs) use and appropriation in the Americas. Currently, she serves as member of two dispute resolution administrative courts: the Division with Jurisdiction over Consumer Protection of the National Consumer Protection and Competition Enforcement Public Agency (Indecopi), and at Ositran, the National Transport Infrastructure Regulator. Recently, she was a board member of Petroperú (the national petroleum company), and the chief advisor to the minister of energy and mining. During her career, Barrantes has served on the staff and as a member of the board of directors of the Peruvian Telecommunications Regulatory Authority (OSIPTEL), as well as being a consultant to the Transport Regulatory commission in Peru (OSITRAN) and OSIPTEL, the National Superintendent of Sanitation (SUNASS), the Ministry of Transport and Communication, the National Ombudsman Office, and the Inter-American Development Bank.

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Carla Bonina is an assistant professor of entrepreneurship and innovation at Surrey Business School in the UK and senior researcher at the Latin American Open Data Initiative (ILDA). Carla has fifteen years of experience conducting research work on digital innovation, entrepreneurship, and policy in international development. Her work has been published in leading academic journals such as *Government Information Quarterly* and *Information Systems Journal*, and she has contributed to previous edited volumes published by MIT Press. She provides regular strategic advice on digital transformation, open data, and value creation in the digital economy to governments, international organizations, and start-ups, including Avina Americas, the Organisation for Economic Co-operation and Development (OECD), International Development Research Centre (IDRC), and the World Bank. She is considered a Latin American expert. Carla holds a PhD in management from the London School of Economics and Political Science (LSE) in the UK. She is a member of Sandbox, a global network of young entrepreneurs, and shares a passion for social entrepreneurship.

Michael Cañares

Michael Cañares is an independent researcher and is currently strategy advisor at StepUp Consulting, based in the Philippines. He was recently the senior research manager for digital citizenship at the World Wide Web Foundation and once led the design and implementation of open data experiments in Southeast Asia for the foundation's Open Data Lab in Jakarta. His previous research has focused on local governance and local development issues, including public financial management, infrastructure governance, poverty issues, and open government.

Leslie Chan

Leslie Chan is an associate professor at the Centre for Critical Development Studies, University of Toronto Scarborough (UTSC). He is cross-appointed to the Department of Arts, Culture, and Media at UTSC. His teaching and professional practice center on the role of openness in the design of inclusive knowledge infrastructure and the implications for the production and flow of knowledge and their impact on local and international development. An original signatory of the Budapest Open Access Initiative, Leslie has been active in the experimentation and implementation of scholarly communication initiatives of varying scales around the world. He has served as director of Bioline International, an international collaborative open access platform, since 2000. Leslie was the Principal Investigator (PI) for the Open and Collaborative Science in Development Network (OCSDNet), funded by Canada's International Development Research Centre (IDRC) and the UK's Department for International Development (DFID), and the PI of the Knowledge G.A.P. (Geopolitics of Academic Production) project. He serves on the advisory board of the Directory of Open Access Journals and the San Francisco Declaration on Research Assessment (DORA). Recently, he became a member of an international working group on investing in open infrastructure. Leslie has published broadly on open access and scholarly communications.

Laura Czerniewicz

Laura Czerniewicz is the director of the Centre for Innovation in Learning and Teaching (CILT) at the University of Cape Town, and she was CILT's first director when it was formed in 2014. She has worked in education in a number of roles, with a continuous focus on inequality, access, and digital inequality. These have permeated her research interests, which include the changing nature of higher education in a digitally mediated society, as well as student and academic technological practices. She is currently the South African lead on a project funded by the Economic and Social Research Council National Research Foundation (ESRC NRF) on the Unbundled University, researching emerging models of teaching and learning provision. She has played a key strategic and scholarly role in the areas of blended and online learning, as well as open education. An NRF-rated researcher, Laura has published widely, both formally and informally. Her research outputs can be found at <http://uct.academia.edu/LauraCzerniewicz> and many of her presentations at https://www.slideshare.net/laura_Cz. She can be followed on Twitter at @czernie. For an interview with Laura Czerniewicz, listen to her podcast with Mark Nicols at <http://onlinelearninglegends.com/podcast/007-professor-laura-czerniewicz/>.

Jeremy de Beer

Jeremy de Beer creates and shapes ideas about innovation, intellectual property (IP), and international trade and development. He is an award-winning Professor of Law at the University of Ottawa and a member of the Centre for Law, Technology, and Society. He is a cofounding director of the Open African Innovation Research (Open AIR) network, www.OpenAIR.Africa; a senior fellow at the Centre for International Governance Innovation (CIGI); and a senior research associate at the University of Cape Town. His work has led to policy breakthroughs in digital communications, health sciences, food and agriculture, and clean energy. Jeremy has written over 100

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Stefano De Sabbata

Stefano De Sabbata is a lecturer in Quantitative Geography at the School of Geography, Geology, and the Environment of the University of Leicester and a Research Associate of the Oxford Internet Institute at the University of Oxford. He completed his undergraduate and master's studies at the Department of Mathematics and Computer Science of the University of Udine and then continued his studies at the Department of Geography of the University of Zurich, where he was awarded a PhD in geographic information science in 2013. He was a researcher at the Oxford Internet Institute of the University of Oxford and junior research fellow at the Wolfson College of the University of Oxford. His research focuses on geographic information science (GIS), critical GIS, and quantitative human geography. Stefano is part of the steering committee of GIScience Research UK (GISRUK) and was chair of the GISRUK 2018 conference. He is a member of the Commission on Location-Based Services of the International Cartographic Association and a Fellow of the Royal Geographical Society.

Shirin Elahi

Shirin Elahi is a scenario architect, working with organizations to help them imagine the future in order to grasp opportunities for growth and change. Shirin draws on her architectural expertise, using ideas rather than physical materials as the building blocks with which to imagine and build scenarios for the future—and then plans strategically. She has been involved in scenarios and strategic planning on the future of many global issues, including AIDS in Africa for UNAIDS, aviation for the Royal Aeronautical Society (RAeS), knowledge and innovation in Africa for the International Development Research Centre (IDRC), intellectual property and patenting for the European Patent Office, mobility and the motorcar for the Regional Airline Association (RAA), and nuclear safeguards for the International Atomic Energy Agency (IAEA). Shirin's interests lie in finding innovative ways to use scenarios to build common ground between different groups of stakeholders and to improve the quality of thinking and action around the future. Shirin lives in London.

Alison Gillwald

Alison Gillwald (PhD) is the executive director of Research ICT Africa (RIA) and holds an adjunct professorship at the Nelson Mandela School of Public Governance at the University of Cape

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Mark Graham

Mark Graham is the Professor of Internet Geography at the Oxford Internet Institute, a senior research fellow at Green Templeton College, and a faculty fellow at the Alan Turing Institute. He also holds visiting positions at the University of Cape Town, Wissenschaftszentrum Berlin für Sozialforschung, and Technische Universität Berlin. His research focuses on who benefits most and least from the world's increasing connectivity. Most recently, he was the coauthor (with Jamie Woodcock) of *The Gig Economy* (Polity Press, 2019) and is the editor of *Digital Economies at Global Margins* [MIT Press and International Development Research Centre (IDRC), 2019]. His full list of publications is available at www.markgraham.space.

Rebecca Hillyer

Rebecca Hillyer was the monitoring and evaluation coordinator with Open and Collaborative Science in Development Network (OCSDNet) from 2015 to 2018. She holds an MA in participation, power, and social change from the Institute of Development Studies in the UK, and an MPhil in urban and regional planning from Stellenbosch University in South Africa. She has worked for various community-based research and advocacy organizations across Canada, Ghana, South Africa, and the UK, with a focus on using participatory models to promote locally driven change. Prior to her work with OCSDNet, Rebecca was actively involved in coordinating another transnational research network, the Collaboration for Research on Democracy (CORD). Since 2017, Rebecca has focused her attention on understanding how individuals and communities can be involved in shaping urban life through her work with local municipalities in South Africa and, most recently, in her hometown of Owen Sound, Canada.

Cheryl Hodgkinson-Williams

Cheryl Hodgkinson-Williams is an associate professor, teaching online learning design and advanced research design courses to postgraduate students and supervising masters and PhD

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Dick Kawooya

Dick Kawooya is an associate professor at the University of South Carolina's School of Library and Information Science (SLIS). Kawooya holds a PhD in Communication and Information from the University of Tennessee. His doctoral research explored Ugandan traditional musicians' construction of ownership. Kawooya held an Open Society Institute (OSI) Fellowship in 2006–2007 at the Center for Policy Studies, Central European University, Budapest, conducting research on the impact of copyright on representation of and access to African knowledge. Most recently, he was part of the Open African Innovation Research (Open AIR) and Training Project and network, under which he studied the role of intellectual property (IP) in the exchange and interactions between informal and formal sectors in Africa's emerging automotive industry. He was the Lead Researcher for the African Copyright and Access to Knowledge (ACA2K) Project (2007–2010). Kawooya has served as a member of the Commonwealth of Learning (CoL) Copyright Expert Group, and as Uganda's national copyright expert (representing the Consortium of Ugandan University Libraries) for the international Electronic Information for Libraries (eIFL). Kawooya has attended, and presented at, several meetings of the World Intellectual Property Organisation (WIPO), including the June 2005 Intersessional Intergovernmental Meeting (IIM) on a Development Agenda for WIPO.

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Erika Kraemer-Mbula is a professor of economics at the University of Johannesburg (South Africa) and holds the DST/NRF/Newton Fund Trilateral Research Chair in Transformative Innovation, the Fourth Industrial Revolution and Sustainable Development. She specializes in science, technology, and innovation policy analysis and innovation systems in connection with equitable and inclusive development. In her work, she has explored incremental and disruptive innovations by and for disadvantaged communities, including the informal sector.

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Paulo Matos holds a BA in economics from Pontificia Universidad Católica del Perú (PUCP) and currently is a research associate at Innovations for Poverty Action. He was previously with Instituto de Estudios Peruanos (IEP, Institute of Peruvian Studies) and the Department of Economics at PUCP. His major interests are development economics, social studies, computer science, and mathematics.

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Caroline Ncube is a professor in the Department of Commercial Law at the University of Cape Town (UCT), where she teaches and supervises masters and doctoral students in intellectual property law. She holds the Department of Science and Technology/National Research Foundation Research Chair in Intellectual Property, Innovation, and Development under the auspices of the South African Research Chairs Initiative. She holds a PhD from UCT, an LLM from the University of Cambridge, and an LLB degree from the University of Zimbabwe. Caroline is a Fellow of the Cambridge Commonwealth Society and a Shell Centenary Fund Scholar. Before joining UCT, she lectured at the University of Limpopo (formerly University of the North) and the University of Zimbabwe. Prior to embarking on an academic career, she briefly practiced as an attorney. She has been engaged in several international intellectual property (IP) law research projects, such as the Open African Innovation Research (Open AIR) network project, of which she is a coleader. She has published widely on IP law on aspects including traditional knowledge, regional integration, patents, and copyright law. She is an associate member of the Centre for Law, Technology, and Society at the University of Ottawa. A founding coeditor of the *South African Intellectual Property Law Journal*, Caroline serves on the editorial boards of the *Journal of Corporate and Commercial Law and Practice*, the *African Journal of Intellectual Property*, and the *African Journal of Information and Communication*.

Chidi Oguamanam

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Angela Okune

Angela Okune is a doctoral candidate in the Anthropology Department at the University of California, Irvine. She studies data-sharing cultures and infrastructures of qualitative research groups working in and on Kenya in order to explore broader questions of equity, knowledge production, and socioeconomic development in Africa. Angela is a recipient of a Wenner-Gren Foundation fieldwork grant and a 2016 Graduate Research Fellowship from the National Science Foundation, and she was a 2018 Fellow at the UC Berkeley Center for Technology, Society, and Policy. From 2010–2015, as cofounder of the research department at iHub, Nairobi's innovation hub for the tech community, Angela provided strategic guidance for the growth of tech research in Kenya. Angela has been involved with Open and Collaborative Science in Development Network (OCSDNet) as a Network Coordinator since the network's inception in 2014.

Alejandro Posada

Alejandro Posada was a research associate with Open and Collaborative Science in Development Network (OCSDNet) and a project director with the Knowledge G.A.P. (Geopolitics of Academic Production), based in Bogotá, Colombia. He graduated with high distinction from the International Development and Economics programs at the University of Toronto Scarborough (2016) and is interested in the political economy and financialization of the publishing industry. Alejandro has international work experience (in Guatemala, India, Colombia, and Canada) with nongovernmental organizations (NGOs), international cooperation agencies, and research networks; and in research areas including rural and agrarian development, agricultural financial markets, knowledge production, and open access. With the Knowledge G.A.P., he is investigating the inequality implications of academic publishers' transition into data analytics and the vertical integration of scholarly infrastructure. He currently works as a research analyst for Econometria Consultores, a policy evaluation firm based in Bogotá, Colombia, and has an ongoing research project on the impact of agricultural insurance on farmer risk management in Guatemala.

Nagla Rizk

Nagla Rizk is professor of economics and founding director of the Access to Knowledge for Development Center (A2K4D) at the American University in Cairo's School of Business. Her research area is the economics of knowledge, technology, and development, with a focus on digital platforms, entrepreneurship, innovation, data, knowledge governance, business models, and inclusion in the digital economy in the Middle East and Africa. She leads the Open Data for Development Node for the Middle East and North Africa and is a Steering Committee member of the Open African Innovation Research Partnership. She authored Egypt's National Strategy for Free and Open Source Software (2014), served as a member of Egypt's Ministerial Committee on the Right to Information law (2013), and is a member of the Academy of Scientific Research and Technology's Committee on Alternative Innovation Assessment in Egypt. Rizk is a faculty associate at Harvard's Berkman Klein Center for Internet and Society and Affiliated Faculty at Harvard Law School's Copyrightx course. She is also an affiliated fellow of Yale Law School's Information

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Isaac Rutenberg

Isaac Rutenberg is an academic and lawyer based in Nairobi, Kenya. He is currently the director of the Centre for Intellectual Property and Information Technology Law (CIPIT) at the Strathmore Law School, Strathmore University in Nairobi, where he is also a senior lecturer. Isaac holds a JD (degree in law), a PhD in chemistry, and BSc degrees in chemistry and in mathematics/computer science. He has been admitted to practice law in California, patent law by the US Patent and Trademark Office, and patent/trademark law in the Kenya Industrial Property Institute. He is a member of the Chartered Institute of Arbitrators (Kenya branch) and the American Chemical Society.

Tobias Schonwetter

Tobias Schonwetter is director of the Intellectual Property (IP) Unit (www.ip-unit.org) and an associate professor in the University of Cape Town's law department. He is a Principal Investigator (PI) for various IP-related research and capacity-building projects, including Open African Innovation Research (Open AIR; www.openair.africa). Previously, Tobias was a senior manager, Technology and Innovation Law, at PwC South Africa, as well as the regional coordinator for Africa and Legal Lead South Africa for Creative Commons (CC). He also served as an editor for the *African Journal of Information and Communication* and its Thematic Issue on Knowledge Governance for Development, and was a postdoctoral fellow at the University of Cape Town's IP Unit. Tobias specializes in and teaches IP, particularly the relationship between IP, innovation, and development, as well as cyberlaw. Tobias studied and practiced law in Germany and holds PhD and LLM degrees from the University of Cape Town. Since 2017, Tobias has been an associate member of the Centre for Law, Technology, and Society at the University of Ottawa. Tobias has written numerous articles on IP law and has spoken at various national and international conferences.

Fabrizio Scrollini

Fabrizio Scrollini is the executive director of the Open Data Latin American Initiative (ILDA), and member of the Open Data Network for Development (OD4D). He cofounded and was the chairman of DATA Uruguay, a civic association that builds civic technology to promote human development. Fabrizio is also a cofounder of Abrelatam and the Open Data Regional Conference for Latin America and the Caribbean, and is one of the Lead Stewards of the International Charter of Open Data. He worked with governments, regulators, and civil society at international and regional levels on transparency, access to public information, open data projects, and public-sector reform. He holds a PhD in Government from the London School of Economics and Political Science (LSE).

Raed Sharif

With nearly two decades of experience as a researcher, practitioner, and educator, Raed makes sure that his knowledge and experience contribute to creating the enabling conditions for individuals and communities to improve and realize their potential, especially in the Global South. Throughout this journey, he has been a strong advocate for concepts such as inclusion, openness, and local innovation. He has worked and collaborated with a variety of organizations, including the SecDev Foundation, International Development Research Centre (IDRC), the Web Foundation, the US National Academy of Sciences, CODATA International, and the United Nations Development Programme (UNDP). He also taught at the University of Toronto and Syracuse University. He holds a PhD in Information Science and Technology from Syracuse University, and an MBA and a Bachelor in Economics and Political Science, both from Birzeit University in Palestine.

William Randall Spence

William Randall Spence currently heads Economic and Social Development Affiliates. Assignments include ICT policy and regulation, poverty and economic policy, human development and capability initiatives, intellectual property (IP), and innovation systems. From 1990–2005, he worked with International Development Research Centre (IDRC) as senior program specialist in economics and as Director of IDRC's Regional Office for Southeast and East Asia in Singapore. Prior to joining IDRC, he was a senior economist with the Canadian Departments of External Affairs, Finance, and EMR (Energy, Mines, and Resources), as well as the Ottawa-based North-South Institute. He has worked on a long-range planning project in Kenya (World Bank), as an economic advisor in the Tanzanian Ministry of Planning (CIDA), and has taught economics at McMaster and Guelph universities in Canada. He has a PhD in economics from the University of Toronto. He is a Fellow of the Human Development and Capability Association and a member of the International Advisory Board of LIRNEasia.

Henry Trotter

Henry Trotter works as a researcher with the Centre for Innovation in Learning and Teaching (CILT) at the University of Cape Town (UCT). He focuses on open access, open learning, and open educational resources (OER) and open educational practices (OEP), especially as they relate to the desire for greater social inclusion and social justice in the African higher education sector. The lead author of *Seeking Impact and Visibility: Scholarly Communication in Southern Africa* (African Minds, 2014), he has also coauthored a number of articles and book chapters on these openness themes. In addition to his work in higher education, Trotter has published widely in the field of South African history and culture, including an ethnography titled *Sugar Girls & Seamen: A Journey into the World of Dockside Prostitution in South Africa* (Jacana Media (Pty) Ltd, 2008) and an upcoming work of narrative nonfiction titled *Cape Town: A Place Between* (Catalyst Press, 2020).

François van Schalkwyk

François van Schalkwyk is a research fellow at the Centre for Research on Evaluation, Science and Technology (CREST) at Stellenbosch University. He holds a PhD in science and technology

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Sonal Zaveri

Sonal Zaveri is an experienced evaluator, founder member, and Vice President of the Community of Evaluators South Asia; Coordinator of GENSA, the Gender and Equity Network South Asia; a member of the EvalGender+ global management group; cochair of the Tools and Approaches task group for gender-sensitive and equity-responsive evaluation; a member of the working group on the South2South Evaluation initiative; and course design and facilitator for the first online gender and evaluation course in India. Sonal's interests relate to how culture, rights, participation, and gender intersect with various evaluation approaches, such as outcome mapping and utilization-focused, feminist, and developmental evaluation. Since 2009, she has been involved with Developing Evaluation Capacity in ICT4D (DECI) to train existing information and communication technologies (ICT) researchers and evaluators in utility-outcome-ownership-based evaluation as applied to information and communication technology for development (ICT4D) projects in Asia, and she continues to do so with DECI-3, Designing Evaluation and Communication for Impact. Having worked previously in academia, her current work experience includes government, nongovernmental organizations (NGOs), international governmental organizations (INGOs), foundations, the United Nations, and bilaterals and multilaterals. She lives in India and has worked in more than twenty countries across Asia, East and West Africa, Asia-Pacific, Central Asia, Middle East, and Eastern Europe.