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About the Authors

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Robson Braga de Andrade is President of the National Confederation of Industry (CNI), Director of the Social Services for the Industry (SESI), President of the Board of the National Service for Industrial Training (SENAI), and President of the Orteng Group, a leading company that has produced equipment for energy, oil, gas, mining, steel, sanitation, telecommunications, and transport sectors for over 30 years. He is a member of the Economic and Social Development Council of the Presidency of the Republic (CDES) and a member of the National Council of Industrial Development (CNDI). He was Vice-President of CNI from 2002 until 2010, President of the State Federation of Industries of Minas Gerais (FIEMG) from 2002 to 2010; a member of Minas Gerais State Economic and Social Development Council; Director of the Latin American Business Council (CEAL) from 2004 to 2006; President of the Association of the Electrical Appliances and Electronics Industry (Sinaees) from 2004 until 2010; a member of the Brazilian Association of Infrastructure and Basic Industries (ABDIB) Strategic Council from 2001 to 2003; and a member of the Brazilian Association of Electric and Electronic Industry (Abinee) Board from 2001 until 2004. He graduated in Mechanical Engineering from the Federal University of Minas Gerais (UFMG) and has postgraduate diplomas in Strategic Management for Business Leaders from the Dom Cabral Foundation, in Minas Gerais State, and from INSEAD, France.

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Rosario Castañón holds degrees in Chemical Engineering, a Master's degree in Planning, and a PhD in Business Administration from the National University of Mexico (UNAM). She worked as a technical information analyst at INFOTEC and Head of UNAM's Technology Transfer Department. Currently she is Senior Researcher at the Center for Applied Science and Technological Development. She has been a consultant for the European Patent Office and the World Intellectual Property Organization as well as for private Mexican firms. She coordinated a programme to generate SME innovation projects in the field of chemistry in the State of Mexico. Based on this experience, she participated in CONACYT's project for the development of Mexico's state innovation agendas as well as the North Mexico's Innovation Agendas for the Agri-food Sector. She teaches Management of Technology at UNAM and the Iberoamerican University as well as specialized courses on intellectual property management and competitive intelligence.

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Sónia Dias is a Senior Plant Genetic Resources and Knowledge Management Expert in the Research and Extension Unit at the Food and Agriculture Organization of the United Nations (FAO). She coordinates the knowledge management activities of the Research and Extension Unit at FAO. Ms Dias holds an MSc on Plant Genetic Resources for Conservation and Utilization from Birmingham University, United Kingdom, and has more than 15 years of experience with FAO, CGIAR, and the National Agricultural Research Institute in Portugal.

Guilherme Afif Domingos is the President-Director of Sebrae Nacional. He holds a Bachelor's degree in Business Administration from the School of Economics, Colégio São Luís. Mr Domingos has been fighting for more than 40 years to simplify and improve the business environment for micro and small companies in Brazil. He was the Chairman of *Bem Mais Simples Brasil* programme's council, and held the position of Chief Minister of the Secretariat for Micro and Small Enterprises of the Presidency of the Republic between May 2013 and September 2015. Between 2011 and 2014, he was Vice-Governor of São Paulo. He has held several positions in government departments of the State of São Paulo, was the President of the Confederation of Trade Associations of Brazil (CACB), President of the Federation of Commercial Associations of São Paulo State (FACESP), and President of the Trade Association of São Paulo (ACSP). He ran for Senate in 2006 and received more than 8 million votes. In 1986, he was the third most voted federal constituent deputy. Mr Domingos was a candidate for the Presidency of the Republic in 1989, when he received more than 3.2 million votes. In 1979, he was in charge of the presidency of the Development Bank of the State of São Paulo (Badesp). Between 1990 and 2007 he was the President-Director of Indiana Seguros, a company founded by his grandfather in the 1940s.

Marcos Domínguez-Torreiro is a Research Fellow at the Competence Centre on Composite Indicators and Scoreboards (COIN) of the Joint Research Centre of the European Commission (Italy), where he conducts research and policy support tasks in the field of Econometrics and Applied Statistics. After his undergraduate studies in Economics and Business Administration, he completed his doctoral thesis in Applied Economics at the University of Vigo, Spain. His past work experience includes the private sector, universities, and public administration. He has co-authored books and research articles dealing with finance, consumer behaviour, environmental and natural resource economics, rural development, and institutional economics.

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Julius Ecuru, PhD, is an expert in technological innovation systems. He is currently Head of the Bioresources Innovation Network for Eastern Africa Development (BioInnovate Africa) Programme, which is based at the International Centre of Insect Physiology and Ecology (*icipe*) in Nairobi, Kenya. BioInnovate is a regional initiative that supports scientists at universities, public research institutes, and firms in Burundi, Ethiopia, Kenya, Rwanda, Tanzania, and Uganda to connect bio-based ideas and technologies to business and the market in the sectors of agriculture, environment, and industry. Dr Ecuru has been working for the Uganda National Council for Science and Technology as Assistant Executive Secretary in research and innovation. He has a unique blend of expertise that encompasses research, innovation, and industrial policy development. He is active in national, regional, and international discussions on bioscience innovation systems and policies. His research interests include understanding and designing innovation eco-systems that support the development and use of bio-based technologies for inclusive growth and sustainable development in low- and middle-income countries, specifically in Africa. His work is at the nexus of industry, agriculture, and the environment. Dr Ecuru is also a non-resident fellow of the African Centre for Technology Studies, and a board member of the East Africa Resilient Africa Network, which promotes local innovative solutions for communities' resilience against natural and human-induced stresses.

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Rafael Escalona Reynoso has been Lead Researcher at the Global Innovation Index since October 2013. His previous professional experience includes working as Economic and Science and Technology Policy Advisor to the Senate of Mexico and as a member of the Trade and Foreign Investment Advisory Board at the office of the President of Mexico. His research experience at Cornell University includes comparative studies between Mexico and Spain on the regulatory aspects of modern biotechnology and the biosafety of genetically modified organisms (GMOs), and on the reach of intellectual property rights (IPRs) in the information technologies era. He holds a PhD in Regional Planning and a Master of Public Administration from Cornell University as well as a BA in Economics from Universidad Panamericana in Mexico.

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Kavery Ganguly is a part-time Senior Consultant working with the Policy Advocacy and Research team at the Confederation of Indian Industry (CII) – Jubilant Bhartia Food and Agriculture Centre of Excellence (FACE). Her focus areas include policy issues related to marketing, high-value chains, food-grain management, and the role of business models in securing food and nutrition security in India. Prior to joining CII, she worked with the International Food Policy Research Institute (IFPRI) from 2004 to 2011 on various issues related to the social safety net, biofuels, value chains, and the overall agricultural policy environment in India and South Asia. Ms Ganguly has been working in the area of policy research for the past 13 years on issues related to food and agriculture and their socioeconomic implications. During this time, she has co-authored several papers, book chapters, media articles, and research reports and also participated in various national and international workshops. Ms Ganguly completed her Master's degree in Economics (International Trade with Specialization in World Economy) from the School of International Studies, Jawaharlal Nehru University, New Delhi.

Leonid Gokhberg is First Vice-Rector of the Higher School of Economics (HSE)—one of the most prominent research universities in Russia. He is also Director of the HSE Institute for Statistical Studies and Economics of Knowledge (ISSEK). Professor Gokhberg's area of expertise is statistics and indicators on science, technology, and innovation as well as foresight and policy studies in this area. He has authored over 400 publications in Russian and international peer-reviewed journals, monographs, and university textbooks. Professor Gokhberg has coordinated dozens of national and international projects, including some aimed at establishing statistical frameworks for measuring innovation in industry; services and agriculture; and engineering and industrial design, emerging technologies and nanotechnology in particular; national S&T Foresight-2025 and 2030, sectorial and regional foresight and roadmapping exercises; understanding innovation behaviour of companies; surveying public awareness of S&T and innovation; and developing methodologies for evaluating public research institutions, measuring efficiency of S&T policies, and so on, funded by public agencies, businesses, and international organizations. Professor Gokhberg has served as a consultant of the OECD, Eurostat, UNESCO, and other international and national agencies. He is also a member of the GII Advisory Board, the OECD Government Foresight Network, and OECD and Eurostat working groups and task forces on indicators for S&T and innovation and information society and education, as well as steering committees of various prestigious international and national initiatives. Professor Gokhberg is Editor-in-Chief of the Scopus-indexed scientific journal *Foresight and STI Governance* (<https://foresight-journal.hse.ru/en/>) and editor of the Springer academic book series *Science, Technology, and Innovation Studies* (<http://www.springer.com/series/13398>), and he participates on the editorial boards of several other influential journals. He holds PhD and Dr. of Sc. degrees in Economics.

Miguel I. Gómez is an Associate Professor at Cornell University and concentrates his research and extension programme on two interrelated areas under the umbrella of food marketing and distribution: One is Food Value Chains Competitiveness and Sustainability. His work in this area involves multi-disciplinary collaborations; his primary contribution is the development of models to assess supply chain performance in multiple dimensions: economic, social, and environmental. The second area is Food Value Chain Negotiation, where he combines theory and outreach methods, emphasizing key concepts such as price transmission, demand response, buyer-seller negotiations, market power, and retail performance. In addition, his research in this area extends to economic development. Specifically, he examines the incentives and barriers of smallholder farmer participation in food value chains with an emphasis on Latin America. His research and extension programme is both domestic and international in scope, the latter emphasizing food value chains in Latin America and the Caribbean. In addition, his applied research efforts aim at enhancing market opportunities for horticultural products (fruits, vegetables, and ornamentals), benefiting producers, food processors/distributors, and consumers worldwide.

Christian Grovermann is an Agricultural Economist at the Research Institute of Organic Agriculture (FiBL) in Switzerland. Until March 2017 he worked at the Research and Extension Unit of the Food and Agriculture Organization of the United Nations (FAO) on the development and piloting of instruments for assessing agricultural innovation systems. He holds an MSc in Sustainable Resource Management and a PhD in Agricultural Economics from the University of Hohenheim, Germany, where he carried out research on the evaluation of pesticide reduction strategies.

Francesca Guadagno is an Economist at the World Intellectual Property Organization (WIPO). Her research interests cover the broad area of innovation and development, with a focus on the role of public policies. Before joining WIPO, she was a consultant at the Globalization and Development Strategies Division of UNCTAD. She has considerable experience in policy-oriented research, working with the Asian Development Bank, the Dutch Ministry of Foreign Affairs, the Gates Foundation, the E15 Initiative, the ECDPM, UNIDO, and WIPO. Dr Guadagno holds a Master of Economics and Management of Innovation from Bocconi University (Milan, Italy), a second Master of Management of Innovation from the Rotterdam School of Management (the Netherlands), and a PhD in Innovation Studies and Development from UNU-MERIT and Maastricht University (School of Business and Economics).

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Barry H. Jaruzelski is a Thought Leader with Strategy&, PwC's strategy consulting business, where he advises senior high-tech and industrial executives on corporate and innovation strategy. He is a Principal with PwC US, based in Florham Park, New Jersey. In 2013, Mr Jaruzelski was named one of the 'Top 25 Consultants' by *Consulting* magazine. He was also awarded the Gold Medal for Original Research by the American Association of Business Press Editors for the 2012 instalment of the Global Innovation 1000, a study he created in 2005. He has been a guest lecturer on the challenges of innovation at Harvard, Wharton, Columbia, MIT-Sloan, NYU-Stern, and UVA-Darden business schools. He often appears as an expert commentator on ABC News, CNBC, CNN, NPR and BBC, and has authored articles on innovation published in *Scientific American*, *Financial Times*, *Forbes*, *Fortune*, *Wired*, *All China Review*, and *strategy+business*, among others. He holds a BS from the University of Pennsylvania's Wharton School and an MBA from Columbia University.

Tom Johnson is a Principal with PwC US, based in Minneapolis, Minnesota. He leads PwC's US advisory agribusiness segment, including coordinating client engagements across the global PwC network, facilitating thought leadership on agribusiness trends, and tracking merger and acquisition activities and emerging technology start-ups in the agribusiness sector. He focuses on operational strategy and technology advisory for large agribusiness, grocery chains, food service operators, food distributors, and food manufacturers. Mr Johnson has consulted on technology investments with growers, co-ops, seed and crop protection suppliers, animal nutrition and animal health providers, ag-services organizations, and major food trader/processors across the US agriculture value chain. He has a Bachelor's degree in Computer Science from the University of Tennessee, Knoxville.

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Bruno Lanvin is INSEAD's Executive Director for Global Indices. From 2007 to 2015 he was the Executive Director of INSEAD's eLab, managing INSEAD's teams in Paris, Singapore, and Abu Dhabi, and then Executive Director for INSEAD's European Competitiveness Initiative (IECI). From 2000 to 2007 Dr Lanvin worked for the World Bank, where he was inter alia Senior Advisor for E-strategies and Regional Coordinator (Europe and Central Asia) for ICT and e-government issues. He also headed the Capacity Building Practice of the World Bank's Global ICT Department and was Chairman of the Bank's e-Thematic Group. From June 2001 to December 2003, he was the Manager of the Information for Development Program (infoDev) at the World Bank. In 2000 Dr Lanvin was appointed Executive Secretary of the G8-DOT Force. Until then, he was Head of Electronic Commerce in the United Nations Conference on Trade and Development (UNCTAD) in Geneva, and occupied various senior positions including Chief of the Cabinet of the Director-General of the United Nations in New York, Head of Strategic Planning, and later Chief of the SME Trade Competitiveness Unit of UNCTAD/SITE. He was the main drafter, team leader, and editor of *Building Confidence: Electronic Commerce and Development*, published in January 2000. Since 2002, he has been co-authoring *The Global Information Technology Report* (INSEAD-World Economic Forum-Cornell University); he is currently the co-editor of the *Global Innovation Index* report (INSEAD-WIPO-Cornell University). In 2013, he created and launched the first edition of the *Global Talent Competitiveness Index* (GTCI), and still is the co-editor of this annual report. He holds a BA in Mathematics and Physics from the University of Valenciennes (France), an MBA from Ecole des Hautes Etudes Commerciales (HEC) in Paris, a PhD in Economics from the University of Paris I (La Sorbonne) in France, and is an alumn of INSEAD (IDP-C). A frequent speaker at high-level meetings, he advises a number of global companies and governments and has been a member of numerous boards for many years, including those of ICANN, IDA-Infocomm, GovTech, IP-Watch, AAID, and the Bin Rashid Foundation for Government Innovation.

Jordan Litner joined Cornell University in July 2015. He is the Project Manager of the Global Innovation Index 2017. His previous professional experience includes working as an Account Supervisor of E-commerce and Digital Marketing with Fortune 500 companies at iProspect in Boston, Massachusetts, USA. Prior to that, he was a coordinator for study abroad programming with the Institute for Study Abroad (IFSAs), Butler University, which involved student recruitment, marketing and social media development, and university outreach. He obtained his Bachelor of Arts from the Johns Hopkins University in Baltimore, Maryland, where he studied Economics and Applied Mathematics & Statistics. He is currently continuing his education at the Cornell SC Johnson College of Business at Cornell University.

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Katie Ricketts is an Applied Economist who has worked on urban and agricultural development issues as an academic researcher, nonprofit practitioner, and government staffer. Throughout much of her career, she has maintained a sharp focus on the linkages between agricultural development, nutrition/health, and rural economic development. While on staff at Cornell University, she managed a large research effort aimed at evaluating the linkages between economics, poverty, and human health with the Tata-Cornell Agriculture and Nutrition Initiative (TCI). Prior to working for Cornell University, Ms Ricketts worked with the Food and Agriculture Organization of the United Nations (FAO), and held positions at International Center for Tropical Research (CIAT) and Oxfam UK. In the past year, she broadened her scope to include working on US domestic policy issues including the gender wage gap, climate resiliency and adaptation in urban centres, and housing affordability and economic inequality on behalf of local US government agencies. She holds an MSc in Applied Economics from Cornell University and a BA in International Development Studies from the University of California Los Angeles (UCLA) and currently resides in Colorado.

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Michaela Saisana leads the European Commission's Competence Centre on Composite Indicators and Scoreboards (COIN) at the Joint Research Centre in Italy. She conducts and coordinates research on the monitoring of multi-dimensional phenomena that feed into EU policy formulation and legislation. She collaborates, by auditing performance indices, with over 100 international organizations and world-class universities, including the United Nations, UNICEF, Transparency International, the World Economic Forum, INSEAD, the World Intellectual Property Organization, Yale University, Columbia University, and Harvard University. Her publications deal with composite indicators, multi-criteria analysis, multi-objective optimization, data envelopment analysis, and sensitivity analysis (20 peer-reviewed articles, 2 books, 60 working papers). She provides regular trainings/seminars on composite indicators (over 30 trainings and 60 invited lectures). In 2004 she was awarded the European Commission's JRC Young Scientist Prize in Statistics and Econometrics in recognition of her research on composite indicators. She has a PhD and an MSc in Chemical Engineering.

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