

Lincoln University Hybrid Workshop on

**“Transforming Agriculture Through Circular Bioeconomy: Evidence
from Asia-Pacific”**

Date: 8th April 2025

Time (New Zealand time): 13:00 – 18:00

Location (in person): Inaka, Waimarie, Lincoln University

Online Teams Webinar: Details to be sent upon registration

Organized by

Prof. Wanglin Ma, HoD, Department of Global Value Chains and Trade, Lincoln University,
New Zealand

Co-organized by

Centre of Excellence in Transformative Agribusiness, Lincoln University, New Zealand
Asian Development Bank Institute (ADBI), Tokyo, Japan

Supported by

Assoc. Prof. Xiaoshi Zhou, China Agricultural University, Beijing, China
Prof. Liangang Zhang, Dean, Southwest Forestry University, Kunming, China

Workshop Registration Website

<https://www.transformativeagribusiness.co.nz/events/circular-bioeconomy>

Workshop Agenda

8 April 2025	
13:00-13:10	Welcome
13:10-13:15	Opening Remarks (Prof. Alan Renwick)
13:15-13:20	Session Chair: Alan Renwick , Professor of Agricultural Economics and Associate Dean (Research), Department of Global Value Chains and Trade, Co-Director, Transformative Agribusiness Centre of Excellence, Lincoln University, New Zealand
13:20-13:30	Warm-up Presentation 1: Toward a Circular Bioeconomy in Asia: Transforming Agricultural Waste into Economic Benefits and Environmental Sustainability Presenter (online): Dr. Dil B. Rahut , Vice-Chair of Research/Senior Research Fellow, Asian Development Bank Institute (ADBI), Japan
13:30-13:40	Warm-up Presentation 2: The Promise and Challenges of the Circular Bioeconomy in Agri-Food Systems Presenter: Prof. Wanglin Ma , HoD, Department of Global Value Chains and Trade, Lincoln University, New Zealand
13:40-14:10	Paper 1: The State of Circular Bioeconomy Research in Australia and New Zealand: A Systematic Map
13:40-13:55	Presenter: Tiffany McIntyre , Postdoctoral Fellow, Transformative Agribusiness Centre of Excellence, Lincoln University, New Zealand
13:55-14:05	Discussant: Westbrooke Victoria , Senior lecturer, Lincoln University, New Zealand
14:05-14:10	Q&A
14:10-14:40	Paper 2: A Small Act Towards Circular Bioeconomy: Adoption of Integrated Crop-Livestock System and Its Impacts on Fertilizer Use
14:10-14:25	Presenter (online): Hongyun Zheng , Associate Professor, College of Economics and Management, Huazhong Agricultural University, China
14:25-14:35	Discussant: Wei Zhang , Postdoctoral Fellow, Department of Global Value Chains and Trade, Lincoln University, New Zealand
14:35-14:40	Q&A
14:40-15:10	Paper 3: Bridging Knowledge and Capacity Gaps in Crop Residue Bioenergy: SLR-based WINGS Analysis of Circular Bioeconomy Barriers
14:40-14:55	Presenter (online): Sarmistha Mishra , PhD Candidate, Indian Institute of Technology Bhubaneswar, India
14:55-15:05	Discussant: Simeon Kaitibie , Associate Professor, Lincoln University, New Zealand
15:05-15:10	Q&A

15:10-15:20	Short Break
15:20-15:25	Session Chair: Alison Bailey , Professor of Farm Management and HoD of Farms, Department of Land Management and Systems, Lincoln University, New Zealand
15:25-15:55	Paper 4: Circular Bioeconomy in Organic Waste Management: Maggot Cultivation from Organic Waste and its Utilization for Agriculture, Fishery and Livestock in Indonesia
15:25-15:40	Presenter (online): Joni Jupesta , Fellow, Center for Transdisciplinary and Sustainability Sciences (CTSS), IPB University, Indonesia
15:40-15:50	Discussant: Ani Kartikasari , Senior Lecturer, Department of Global Value Chains and Trade, Lincoln University, New Zealand
15:50-15:55	Q&A
15:55-16:25	Paper 5: Rise from the Machine: From the Matrix of Technological Transformation to a Circular Bioeconomy – An Environmentally Extended Input-Output Analysis of the Asia-Pacific
15:55-16:10	Presenter (online): Irwan Sutisna , Head of Sustainable Development and Statistical Analysis Division, BPS-Statistics, Indonesia
16:10-16:20	Discussant: John Saunders , Senior Lecturer, Department of Global Value Chains and Trade, Lincoln University, New Zealand
16:20-16:25	Q&A
16:25-16:55	Paper 6: Transition to Circular Bioeconomy in Southeast Asia: Opportunities and Challenges
16:25-16:40	Presenter (online): Novlloyd Celeste , Associate Professor, Northwest Samar State University, Philippines
16:40-16:50	Discussant (online): Meike Rombach , Senior Lecturer, Department of Land Management and Systems, Lincoln University, New Zealand
16:50-16:55	Q&A
16:55-17:00	Closing Remarks (Prof. Alison Bailey)
17:00-18:00	Buffet Dinner and Networking Dinner Location: Te Kete Ika – Food & Function Centre
18:00	Event Ends

Biographies of Speakers

Event Coordinators

Name	Profile
Katie Browning	Position: Events Manager, Lincoln University, New Zealand Contact: Katie.Browning@lincoln.ac.nz
Wanglin Ma	Position: Professor of Applied Economics, HoD, Department of Global Value Chains and Trade, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/wanglin.ma

Session Chairs (Alphabetical Order by Last Name)

Name	Profile
Alison Bailey	Position: Professor of Farm Management and HoD of Farms, Department of Land Management and Systems, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/alison.bailey
Alan Renwick	Position: Professor of Agricultural Economics and Associate Dean (Research), Department of Global Value Chains and Trade, Co-Director, Transformative Agribusiness Centre of Excellence, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/alan.renwick

Discussants (Alphabetical Order by Last Name)

Name	Profile
Kartikasari Ani	Position: Senior Lecturer, Department of Global Value Chains and Trade, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/ani.kartikasari
Simeon Kaitibie	Position: Associate Professor, Department of Agribusiness and Markets, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/simeon.kaitiebe
Meike Rombach	Position: Senior Lecturer, Department of Land Management and Systems, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/meike.rombach
John Saunders	Position: Senior Lecturer, Department of Global Value Chains and Trade, Lincoln University Profile: https://researchers.lincoln.ac.nz/john.saunders
Westbrooke Victoria	Position: Senior lecturer, Department of Land Management and Systems, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/victoria.westbrooke
Wei Zhang	Position: Postdoctoral Fellow, Transformative Agribusiness Centre of Excellence, Lincoln University, New Zealand Profile: https://researchers.lincoln.ac.nz/wei.zhang

Presenters (Alphabetical Order by Last Name)

Name	Novlloyd Celeste
Institute	Northwest Samar State University, Philippines
Position	Associate Professor
	A license environmental planning and environmental impact assessment preparer with extensive experience on research and community development. With over 10 years experience in research and community work dedicated to foster sustainable solutions from crafting Comprehensive Land Use Plans in Samar to leading climate change vulnerability assessments in coastal communities. As a project leader, I've secured and managed grants, implementing impactful research on Payment for Ecosystem Services for Calbayog Pan-as Hayiban Protected Landscape (CPHPL), social health research, and agriculture support services.

Name	Joni Jupesta
Institute	IPB University, Bogor, Indonesia
Position	Fellow
	Since 2024, Dr. Joni Jupesta has been a Fellow at the Center for Transdisciplinary and Sustainability Sciences (CTSS) IPB University, Bogor, Indonesia. He started his career firstly at United Nations University- Institute for the Advanced Study of Sustainability (UNU-IAS), Tokyo, Japan as Postdoctoral Fellow (2010-2013), Visiting Research Fellow (2013-2016) and Research Fellow (2023-2024). From 2020 to 2023, he became Senior Researcher in System Analysis Group at the Research Institute of Innovative Technology for the Earth (RITE) in Kyoto, Japan. Dr. Jupesta had 10 years industrial experience: Senior Manager at Sinar Mas Agribusiness and Food (2013-2020) and Senior Advisor at Astra Agro Lestari (2020-2023) in Jakarta, Indonesia. He graduated his PhD in Management of Science and Technology from Tohoku University (Japan) in 2010, MBA in International Industrial Management from Hochschule Esslingen (Germany) in 2006, and Bachelor in Chemical Engineering from University of Indonesia (Indonesia) in 2000. He also served as Advisor for several corporate sustainability standards: Science Based Targets initiative (SBTi) (2023-2025), Climate Champions of UNFCCC (2024-2026), ISO (2024) and Verra (2023-2025). With more than 15 years experience in academic, industry and policy, he had published over 80 journals, book chapters, and proceedings. H-index 16 by Google Scholar (March 2025).

Name	Tiffany McIntyre
Institute	Lincoln University, New Zealand
Position	Postdoctoral Fellow
	Tiffany McIntyre is a Postdoctoral Fellow in the Faculty of Agribusiness and Commerce at Lincoln University. She holds a PhD in Supply Chain Management and marketing, with her primary research interest being rural sustainability, emphasising value creation and capture within agribusiness supply chains. She is particularly interested in consumer acceptability, learning from indigenous governance, and the circular and bioeconomy.

Name	Sarmistha Mishra
Institute	Indian Institute of Technology Bhubaneswar, India
Position	PhD Candidate
	Sarmistha Mishra is a Ph.D. Candidate in Economics at the School of Humanities, Social Sciences and Management at the Indian Institute of Technology (IIT) Bhubaneswar. Her research, supervised by Dr. Dukhabandhu Sahoo, centers on the adoption of circular economy practices, with a particular focus on micro, small, and medium enterprises (MSMEs) and the agricultural sector. Her broader research interests span environmental and development economics. Sarmistha's recent work, published in the International Journal of Development Issues, examines the key challenges and enabling factors for circular economy adoption in MSMEs. She has presented her research at several international forums, including the 5th Symposium on Circular Economy and Sustainability in Greece and the International Symposium on Transforming Waste Management at IIT Roorkee. Her methodological approach incorporates systematic literature reviews, meta-analyses, and multi-criteria decision-making techniques to investigate critical barriers and their interrelationships in the context of sustainable economic transitions.

Name	Dil B. Rahut
Institute	Asian Development Bank Institute (ADBI)
Position	Vice-Chair of Research/Sr Research Fellow
	Dil Rahut is Vice-Chair (Research) and Senior Research Fellow at Asian Development Bank Institute (ADBI). He was a global program manager for the International Maize and Wheat Improvement Centre's (CIMMYT) socioeconomics and sustainable intensification programs. He also served as chair of the staff's committee at CIMMYT. He previously worked for the Royal Monetary Authority of Bhutan's Research and Statistics Department. He also served as a research fellow at the WorldFish Centre; senior fellow and Japan chair at the Indian Council for Research in International Economic Relations; chief of research,

	planning, and monitoring and Visa/Mastercard director at the Bank of Bhutan Ltd; and assistant professor of development economics at South Asian University. He has a Ph.D. in development economics from the University of Bonn's Center for Development Research, a master's degree in economic policy management from the University of Tsukuba, an MBA specializing in finance, and a bachelor of science degree from India. He has over 135 publications (H Index 26) in Scopus indexed journals focusing on development issues across Asia and sub-Saharan Africa.
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Name	Irwan Sutisna
Institute	BPS-Statistics, Indonesia
Position	Head of Sustainable Development and Statistical Analysis Division
	Irwan Sutisna is a professional and researcher specializing in agricultural economics, sustainable development, and macroeconomic stability. With over a decade of experience at BPS-Statistics Indonesia, Irwan has been actively involved in compiling and analyzing SDG indicators, economic growth metrics, and sustainable economic development indices. His expertise lies in macroeconomic analysis, agricultural economic modeling with empirical data to inform policy decisions.

Name	Hongyun Zheng
Institute	Huazhong Agricultural University, China
Position	Associate Professor
	Hongyun is currently an Associate Professor at the College of Economics and Management, Huazhong Agricultural University, China. He obtained his Ph.D degree in Agricultural Economics through the joint educational program between Huazhong Agricultural University (China) and Lincoln University (New Zealand). He works in the fields of Agricultural Economics and Development Economics, with a focus on topics such as agricultural productivity and efficiency, information technology adoption, rural welfare, and farmer subjective well-being. Dr Zheng has published papers in journals such as <i>Food Policy</i> , the <i>Australian Journal of Agricultural and Resource Economics</i> , the <i>Canadian Journal of Agricultural Economics</i> , and <i>Applied Economics</i> .