



**Sustainable Protein Case Study:  
Outputs and Synthesis of Results**  
28 and 30 June 2021

ADB

# Sustainable Protein Case Study: Outputs and Synthesis of Results

28 and 30 June 2021

## DAY 1 (28 Jun 2021, Monday): Sustainable Livestock

8:00 p.m. – 9:45 p.m. Manila/Beijing/Singapore time (GMT+8)

8:00 a.m. – 9:30 a.m. EDT

2:00 p.m. – 3:30 p.m. CEST

10:00 p.m. – 11:30 p.m. Canberra time

5:00 a.m. – 6:30 a.m. PDT

## DAY 2 (30 June 2021, Wednesday): Plant-Based Meats

9:30 to 11:15 a.m. Manila/Beijing/Singapore time (GMT+8)

7:00 to 8:45 a.m. India

9:30 to 11:15 p.m. EDT (June 29)

02:30 to 04:15 a.m. CEST

11:30 to 01:15 p.m. Canberra time

05:30 to 7:15 p.m. PDT (June 29)

### Join the webinar via Zoom

[Register here for Day 1: Sustainable Livestock](#)

[Register here for Day 2: Plant-Based Meats](#)

[Password: RDFSTG2021](#)

## Background

In response to the increasing demand for protein in Asia, ADB's investment portfolio in livestock and feed industry is growing. At the same time, the plant-based meat and alternative protein industries are taking off globally, with especially fast growth in Asia. Hence, it is essential for policy makers, industry investors and ADB's food security engagement to understand the quickly changing food value chain landscape in the region to gain knowledge on global best practices in supporting the protein industry to ensure environmental sustainability, nutrition and food safety and understand the implications for smallholder agriculture while enhancing food supply capacity.

In consideration for ADB's relevant investments over the next three years, [CGIAR Research Program on Climate Change, Agriculture and Food Security \(CCAFS\)](#) experts have developed guidance on sustainable livestock and analyzed sustainability for four cases in consultation with the TG CSA working group members. The workshop will discuss the findings of the guidance and case studies on: Dairy in PRC and INO; feed and fodder in UZB and plant-based meat alternatives and pork in PRC.

The workshop discussion will be organized into two parts: Day 1 will focus on sustainable livestock principles and best practices, and Day 2 will discuss plant-based meat industry and its sustainability, nutrition and food safety, regulation, and potential to generate business for smallholder farmers. Some of these works will be added to [the CSA best practice cases developed and discussed earlier](#) developed earlier with CCAFS and developed into a technical paper.

## Speakers

- An Notenbaert from Alliance of Bioversity and CIAT
- Andreas Wilkes, Director, Values for Development Ltd
- Ciriaco Costa Jr. CCAFS, Alliance of Bioversity and CIAT
- Dong Hongmin, Professor, Deputy Director, Institute of Environmental and Sustainable Development in Agriculture (IEDA), Chinese Academy of Agriculture Sciences (CAAS)
- Giap Minh Bui Principal Natural Resources and Agriculture Specialist, CWRD, ADB
- Hans Woldring, Principal Natural Resources and Agriculture Specialist
- Harsh Rajpal, Partner, Code Partners Pte. Ltd.
- Isaac Emery, Consultant and Wei Sha, Researcher, Institute of Environmental and Sustainable Development in Agriculture (IEDA), Chinese Academy of Agriculture Sciences (CAAS)
- Kate Jarvis, PSOD, ADB
- Lini Wollenberg, CCAFS/ Gund Institute for Environment, and University of Vermont
- Marion DeVries, Researcher in animal production systems, Wageningen University & Research
- Martin Lemoine, Head, Agribusiness Investment Team, Private Sector Operations Department, ADB
- Michiko Katagami, Principal Natural Resources and Agriculture Economist, SDCC, ADB
- Miroslav Batka, International Institute for Applied System Analysis (IIASA)
- Peter Havlik, International Institute for Applied System Analysis (IIASA)
- Rein van der Hoek, Senior Scientist - Senior Scientist, Forage Based Livestock Systems, Alliance of Bioversity and CIAT
- An Notenbaert from Alliance of Bioversity and CIAT
- Carine Sophie Donges, Investment Specialist, PSOD, ADB
- Srinivasan Ancha, Principal Climate Change Specialist, SERD, ADB
- Varun Deshpande, Managing Director, GFI Asia Pacific
- William Chen, Director, Food Science and Technology Programme, Nanyang Technological University
- Wu Yongning, Chief Technical Officer of China National Center for Food Safety Risk Assessment (CFSA)
- Xiaohong Yang, Chief Thematic officer, SDCC, ADB
- Xiaole Wang, Investment Specialist, PSOD, ADB

## Program

### DAY 1 (28 Jun 2021, Monday): Sustainable Livestock

<b>Chair:</b> Michiko Katagami, Principal Natural Resources and Agriculture Economist, SDCC, ADB	
08:00–8:05 p.m.	<b>Opening Remarks (5 mins)</b> Xiaohong Yang, Chief Thematic Officer, SDCC, ADB
08:05–8:15 p.m.	<b>Global Sustainable Livestock Investment Overview (10 mins)</b> Lini Wollenberg, CCAFS/ Gund Institute for Environment and University of Vermont
08:15–09:20 p.m.	<p><b>Presentations</b></p> <ol style="list-style-type: none"> <li><b>1. Sustainability guidance review and framework</b> Presentation: Ciriaco Costa Jr. CCAFS, Alliance of Bioversity and CIAT (10 min) Comments: Srinivasan Ancha, Principal Climate Change Specialist, SERD, ADB (5 mins)</li> <li><b>2. Case study on dairy value chain in Indonesia</b> Presentation: Marion DeVries, Researcher in animal production systems, Wageningen University &amp; Research (10 min) Comments: Carine Sophie Donges, Investment Specialist, PSOD, ADB (5 mins)</li> <li><b>3. Case study on dairy value chain in China</b> Presentation: Dong Hongmin, Professor, Deputy Director, Institute of Environmental and Sustainable Development in Agriculture (IEDA), Chinese Academy of Agriculture Sciences (CAAS) (10 min) Comments: Xiaole Wang, Investment Specialist, PSOD, ADB (5 mins)</li> <li><b>4. Case study on livestock feed and fodder development in Uzbekistan</b> Presentation: An Notenbaert from Alliance of Bioversity and CIAT (10 min) Comments: Hans Woldring, Principal Natural Resources and Agriculture Specialist (5 mins) and Giap Minh Bui Principal Natural Resources and Agriculture Specialist, CWRD, ADB (5 mins)</li> </ol>
09:20–09:30 p.m.	<b>Q&amp;A</b>
09:30–9:40 p.m.	<b>Summary/Next Steps</b> Andreas Wilkes, Director, Values for Development Ltd

### DAY 2 (30 June 2021, Wednesday): Plant-Based Meats

<b>Chair:</b> Michiko Katagami, Principal Natural Resources and Agriculture Economist, SDCC, ADB	
09:30– 9:35 a.m.	<b>Recap from Day 1 (5 mins)</b> Lini Wollenberg, CCAFS/ Gund Institute for Environment and University of Vermont

09:35–10:50 a.m.	<p><b>Presentations</b></p> <ol style="list-style-type: none"> <li><b>The global impacts of substitution of meat by plant-based meat/dairy (chicken, pork, beef, and dairy) on emissions, biodiversity and food security and impacts by region</b> Presentation: Miroslav Batka and Peter Havlik, International Institute for Applied System Analysis (10 min)</li> <li><b>Plant-based meat market in Asia</b> Presentation: Harsh Rajpal, Partner, Code Partners Pte. Ltd. (10 min)</li> <li><b>Assessment of the environmental sustainability of plant-based meat alternatives and pork (LCA) and opportunities for improved sustainability practices in the industry</b> Presentation: Isaac Emery, Consultant and Wei Sha, Researcher, Institute of Environmental and Sustainable Development in Agriculture (IEDA), Chinese Academy of Agriculture Sciences (CAAS) (10 min) Comments: Xiaole Wang, PSOD, ADB (5 mins) and Kate Jarvis, PSOD, ADB (5 mins)</li> <li><b>Nutrition and food safety issues of plant-based and alternative meat</b> Presentation: Professor Chen, Nanyang Technological University / Principal Investigator of the Future Ready Food Safety Hub (FRESH) (10 min) Comments: Kazuko Ogasawara, ADB (5 mins)</li> <li><b>Regulatory process for plant-based meat markets in China</b> (10 mins) Presentation: Professor Wu Yongning, Chief Technical Officer of China National Center for Food Safety Risk Assessment/ Food Safety Co-Director of Chinese Academy of Medical Sciences Research Unit/ Director of NHC Key Lab of Food Safety Risk Assessment, National Health Commission of PR China / Head of WHO Collaborating Center for Food Contamination Monitoring (China)</li> <li><b>Strategic development of plant-based industry</b> (10 mins) Varun Deshpande, Managing Director, Good Food Institute India</li> </ol>
10:50 – 11:10 a.m.	<b>Q&amp;A</b>
11:10–11:20 a.m.	<p><b>Summary/Next Steps</b> Martin Lemoine, Head, Agribusiness Investment Team, Private Sector Operations Department, ADB</p>

## Contacts

Lini Wollenberg, CCAFS ([Lini.Wollenberg@uvm.edu](mailto:Lini.Wollenberg@uvm.edu))  
Bailey Rowland, CCAFS ([Bailey.Rowland@uvm.edu](mailto:Bailey.Rowland@uvm.edu))  
Michiko Katagami, ADB ([mkatagami@adb.org](mailto:mkatagami@adb.org))  
Leah Arboleda, ADB ([larboleda@adb.org](mailto:larboleda@adb.org))  
Angela Banaria, ADB ([mbaranaria@adb.org](mailto:mbaranaria@adb.org))  
Mark Agas, ADB ([magas.consultant@adb.org](mailto:magas.consultant@adb.org))