



# Regional Technical Workshop on Food Loss and Waste targeting members of the Association of Southeast Asian Nations - Summary

**What reduction of food loss and waste can – and must – contribute to “Sustainable Intensification”**

**Yogyakarta/Indonesia, October 5 to 6, 2022**

## **Introduction**

This workshop on food loss and waste (FLW) was part of a series voluntarily organised by the Thünen Institute after the annual Meeting of the G20 Agricultural Chief Scientists (MACS-G20) in 2015 emphasized the decisive importance to reduce FLW. As a result of that decision, the [Collaboration Initiative Food Loss and Waste](#) was established under German coordination. The Johann Heinrich von Thünen Institute, as a German Federal Research Institute for Rural Areas, Forestry and Fisheries, hosts the [Initiative coordinator](#). Since 2017 annual regional workshops have been organised and are assigned each year to the respective G20 presidency country - which in 2021 is Italy - and the neighbouring region.

In 2022 we were kindly supported by the Indonesian MACS-G20 secretariat assisted by our colleagues from the Indonesian Center for Agricultural Postharvest Research and Development (ICAPRD), Stockholm Environmental Institute (SEI), Center for Indonesian Policy Studies (CIPS), Simon Fraser University, FAO Indonesia and UN Environmental Programme in co-organising the 6th Regional FLW Workshop. The target region this year included the members of the Association of Southeast Asian Nations (ASEAN) which are Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Viet Nam.

The aim of the workshop was to support the exchange among regional stakeholders and enhance practical implementation within the topics: Recent Indonesian Initiatives to FLW, Food Waste in ASEAN and Lessons learned from ASEAN Postharvest Food Loss. The programme followed our strategy to enhance knowledge exchange and structured discussion among our participants in order to support action. First, plenary sessions provided introductory presentations which were then followed by working in groups guided by certain key questions. After two years of pandemic-induced lack of an excursion, we were very happy that we could offer a one-day field trip to our participants.

## **Workshop sessions, October 5<sup>th</sup>, 2022**

On October 5<sup>th</sup>, 2022 we welcomed 180 stakeholders in person and more than 320 online participants from policy makers, universities, private and public research institutions, social welfare organisations, food companies etc. from nine different countries! Indonesian media was present and reported about the workshop as well.

### **Opening remarks**

The welcome addresses were kindly submitted by Mr Rajendra Aryal from Food and Agriculture Organisation representative for Indonesia and Timor Leste, Mr Stefan Lange from Thünen Institute in Germany as well as Prof. Fadry Djufry from Indonesian Agency for Agricultural Research and Development.

### **Session 1: Recent Indonesian Initiatives to FLW G20**

The first plenary session, chaired by Dr Fauzi from Center for Indonesian Policy Studies (CIPS), summarised recent G20 activities related to FLW driven by Indonesia. Prof. Handewi Saliem provided an insight on the findings of the virtual Workshop “Gap Analysis on Food Loss and Waste Indices” which was organised by the Indonesian Agriculture Working Group on June 21-22, 2022. The objective was to “assess and understand food practices and problems related to the fulfilment of the variables used to form the food loss index and food waste index” as well as “to address and disclose gaps between measurement methods and available data and input on specific efforts to minimize gaps in data”. For further information and the presentations, please see the [event’s website](#).

The Policy brief FLW which was developed by the Stockholm Environmental Institute (SEI) in the course of a T20 call was presented by Ms Melati. T20 as one of the official engagement groups of G20 invited international think tanks and research centres in early 2022 to submit their policy abstracts related to food loss and waste within the T20 [Task Force 4 on Food Security and Sustainable Agriculture](#) (TF 4). In 2022, the host organisation for TF4 was the Center for Indonesian Policy Studies (CIPS) and Bogor Agricultural Institute/IPB University as co-host. A consortium led by the Stockholm Environment Institute (SEI) was selected with its proposal together with their partner organisations Commission for Sustainable Agriculture Intensification (CoSAI), CGIAR, Royal Holloway, University of London and International Water Management Institute (IWMI). The developed policy brief highlights the potential contribution of food loss and waste reduction activities towards the achievement of SDGs 2, 11 and 12 and that a facilitation of synergies is crucial. Four elements are covered by the brief which are: adopting holistic and circular planning perspectives; facilitating urban and peri-urban farming; integrating innovative behavioural interventions; and providing enabling environments. More details on the policy brief can be found [here](#).

### **Session 2: Food Waste in ASEAN**

The second session focussing on food waste issues was chaired by Felicitas Schneider from Thünen Institute in Germany. Ms Hur from the UN Environmental Programme (UNEP) presented the UNEP Regional Working Groups facilitating the implementation of the Food Waste Index as well as a social media kit developed for the [Every Plate Counts challenge](#). The presentation was completed by Ms Budiani from the Indonesian Business Council for Sustainable Development who introduced the activities of the voluntary agreement

related to FLW, called [GRASP 2030](#). Further insights into food waste from households were summarised by Prof. Watanabe from Teikyo University by comparing food waste data from Malaysia, Indonesia and Japan.

### **Session 3: Lessons learned from ASEAN Post harvest Food Loss**

Dr Haryono from Binus University chaired the third plenary session which informed about the postharvest food loss (PHL) issue in ASEAN countries. Data on food losses in combination with specific case study information related to implementation of improvement measures were presented by Prof. Munsaro from the Indonesian Society of Postharvest Technology. Ms Carola Fabi from the FAO Statistical Office complemented the session with updated information on PHL data in ASEAN countries and findings from further Food Loss Index measurements on a global scale.

### **Working group sessions**

After the break, four working groups were established where the onsite participants discussed the following guiding questions:

- Which utilisation methods are common in your country to prevent food losses from wastage (e.g. use as feed, industrial use) and which methods are currently being implemented or planned?
- Are there specific burdens to implement those strategies on a large scale?
- How can we improve storage techniques (both modern and traditional) to contribute to the reduction of post-harvest loss in ASEAN countries?
- The opportunities and challenges of Food Banks in ASEAN regions.

The input from the onsite participants was complemented by written input from online participants. The findings were summarised by the facilitators and discussed in the last plenary session. Please have a look to the video recordings to see the detailed results.

During the breaks, the participants could have a look at the different stalls presenting various activities connected to food surplus redistribution or food loss and waste prevention and utilisation. At the lunch and coffee break buffet, table displays raised awareness of conscious consumption of food. This approach was already implemented during some G20 events hosted during the presidency of the Kingdom of Saudi Arabia (see also our Annual Report [2020](#)). We suggest that upcoming G20 presidencies adopt such awareness raising issues for all their events.

### **Field trip, October 6<sup>th</sup>, 2022**

The second day of the FLW workshop was dedicated to the experience of practical implementation of FLW related issues. A group of about 80 people joined the interesting field trip. The first place was Protema Natural Feed PT Maggoprotein Alam Indonesia where we could see the breeding of black soldier fly maggots fed by shredded food waste from restaurants. The products can be used as feed for pets such as fish, birds or turtles.

Our next stop was the agricultural production of snake fruits (salacca) in Sleman where the salacca trees as well as the sorting and packaging facility could be inspected. The fruits have to be handled with special care as only high qualitative products can be exported and achieve high economic value. A tasting of fresh salacca and durian fruits complemented the morning.

Even the lunch break was dedicated to our main topic and was a very good example for practicable measures to use food waste as valuable resource. The visited mushroom restaurant produces its various species of mushrooms themselves on-site. Wood chips as well as sanitised food waste are used as substrate. The result is not only very tasty but also contributes to a sustainable food system.

In the afternoon, the Food Bank of Indonesia presented their main location in Yogyakarta together with two social institutions supported nearby. The visited kindergarten offers donated food to the children to ensure a regular food intake. The women and children healthcare centre is supported with food to ensure that women and their children as well as elderly women do not experience malnutrition. A visit at Winotosastro Batik Craft, followed by a dinner at beautiful Candi Prambanan temple hosted by Bupati Sleman (Region) and finally the breathtaking Ramayana Ballet completed the day.

We would like to thank our cooperation partners, and all colleagues from the ICAPRD team, the presenters, chairs and moderators who contributed to the success of the workshop. We would like to highlight the professional performance of the whole Indonesian team, especially Dr Prayudi Syamsuri, Prima Luna, Lina Marlina, Dr Hadis Jayanti, as well as the moderators for the working groups which were Dr Kohei Watanabe from Teikyo University and Ms Dewi Farmaningrum from FAO Indonesia and Dr Tammara Soma for their generous support of the FLW workshop!

Thanks to all participants for their fruitful contributions and hopefully this workshop was useful for all of you!

Please see the [Initiatives's website](#) for the detailed agenda as well as video recordings of the sessions. Please be aware that the videos are classified according to the sessions and show the content of one session in a row. In each video recording bookmarks are provided to move from one presentation to the next more easily. There are also some photos provided to illustrate the field trip locations.

This summary is provided by the [Collaboration Initiative Food Loss and Waste](#). For further information please contact the coordinator, Felicitas Schneider from Thünen Institute ([felicitas.schneider@thuenen.de](mailto:felicitas.schneider@thuenen.de)).

You are welcome to register at our Global FLW expert and project data base [here](#).