

2013 APEC Workshop on Food Security

APEC/ ATCWG&PPFS Multi-Year Project “Strengthening Public-Private Partnership to Reduce Food Losses in the Supply Chain” (M SCE 02 2013A)

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Background

Excessive Food losses

According to UN's research, 1/3 of food for human consumption is wasted globally (1.3 bn ton per year)

Post-harvest losses in the Asia-Pacific region alone is equivalent to 30% of world food production.

Growing awareness

Recent UNEP & FAO awareness campaigns (such as World Environment Day 2013) and G20 summit statements have put emphasis on reducing food losses to enhance food security.

APEC Food Security

APEC engagements

The 2012 Kazan Declaration and the 2010 Niigata Declaration on APEC Food Security have highlighted the importance of reducing post-harvest losses to achieve sustainable agricultural growth and to safeguard APEC food security.

Chinese Taipei's actions

Action plans on reducing food losses have been integrated in the APEC 2020 Roadmap on Food Security. Chinese Taipei further initiated a multi-year project on food-losses reducing through Public-Private Partnership.



Background

Project Development



Asia-Pacific
Economic Cooperation

**Initiated
In Kazan
meeting
2012**

- To implement one of six action plans proposed by Chinese Taipei, in the APEC Food Security Action Plan

**Endorsed by
PPFS &
ATCWG
Spring 2013**

- Apply to APEC Multi-Year Project in early 2013
- Asked for APEC funding of US\$498,184
- Obtained co-sponsorship from 13 economies
- ATCWG & PPFS endorsement

**Approved
by BMC
June 2013**

- Recommended by APEC Secretariat in May 2013
- Approved by BMC in June 2013



Multi-Year Project Design (2013-2017)

Phase I (2013)

Establish a **Focal Point Network (FPN)**

Study the **current status and key issues of post-harvest food losses** in the APEC region

Hold a **seminar** with on reducing food losses **on food crops**

Formulate a **methodology of food losses assessment**,
Establish a toolkit and dataset

Build a solid foundation for future project implementation



Phase II (2014-2016)

Annual seminar

- 
- Fruit and vegetables in 2014
 - Fishery and livestock products in 2015
 - Food losses & wastes issues occurred on the food consumption in 2016

Continuous Actions

- Trace and monitor the progress of applications
- Improve the methodology, and enriching the toolkit and dataset
- modify and extend the methodology of food losses assessment on other types of food



Phase III (2017)



Asia-Pacific
Economic Cooperation

Propose

To synthesize the previous progress of the project and to generate the final conclusion of policy recommendations

A consolidated
methodology

Completion of
Toolkit &
dataset

Policy
recommendat
ions &
follow-up
strategies

A High-Level Policy
Dialogue Meeting

Upload in Asia-Pacific Information on
Food Security (APIP) website



2013 APEC 2013 Seminar Review- Objective of the Seminar



“APEC Seminar on Strengthening Public-Private-Partnership to Reduce Food Losses in the Supply Chain”

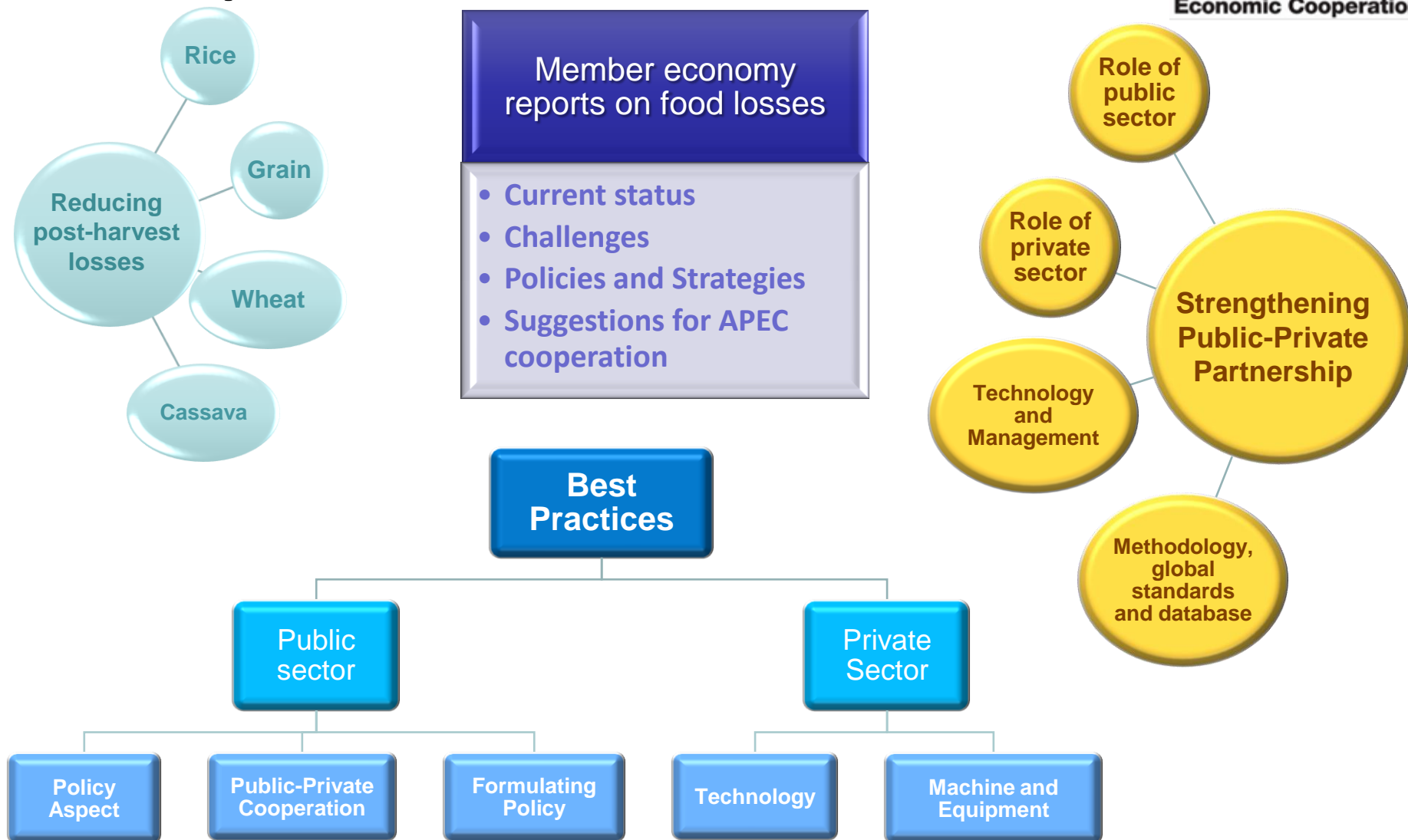
- 1 Target post-harvest losses as the main topic of discussion
- 2 Identify key issues in reducing post-harvest losses at each link of the food supply chain
- 3 Review current situation and policies regarding food losses in each APEC member economy
- 4 Develop methodology, toolkit and database to evaluate food losses in APEC economies
- 5 Discuss agenda for the next five years



2013 APEC Seminar Review- Topics Covered



Asia-Pacific
Economic Cooperation





2013 APEC Seminar Review

APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Time and venue

- ◆ 5-7 August, 2012
- ◆ The Westin Taipei, Chinese Taipei
- ◆ Hosted by the Council of Agriculture (COA) of Chinese Taipei

Participation

- ◆ 120 Participants
- ◆ 18 APEC member economies present
- ◆ 18 speakers from governments, business sector and academia & NGOs

Agenda

- ◆ Main Challenges of Food losses and Food Security
- ◆ Key issues of PPP in reducing post-harvest losses
- ◆ APEC Best Practices
- ◆ Next Steps and future Action Plans

2013 APEC Seminar Review – Seminar Proceedings

APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Opening Session

Welcome address

- H.E. Dr. Bao-ji CHEN,
*Minister, Council of
Agriculture (Chinese Taipei)*
- Mr. Wu-Chiao HSIEH,
*Chinese Taipei APEC
Director General,
Department of International
Organizations, Ministry of
Foreign Affairs (Chinese
Taipei)*
- Dr. Lubiao ZHANG,
*Representative from APEC
ATCWG Lead Shepherd*





2013 APEC Seminar Review – Seminar Proceedings

APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Session1

The Main Challenges in the Present Society - Food losses and Food Security

- **Mr. Brian LIPINSKI**, Associate, World Resources Institute (U.S.A.)
- **Dr. Astu UNADI**, Director, Indonesian Agricultural Mechanization Research Center (Indonesia)
- **Mr. Fujun LI**, Chief Engineer, Academy of Grain Science under State Administration of Grain (China)
- **Mr. Ronald L.J. LU**, Country Director, U.S. Wheat Associates Office in Chinese Taipei (Chinese Taipei)
- **Dr. Peter TOIVONEN**, Research Scientist, Agriculture and Agri-Food Canada (Canada)
- **Mrs. Prapit WONGTIEM**, Senior Agricultural Scientist, Ministry of Agriculture and Cooperatives (Thailand)
- **Dr. David HONG**, President, Taiwan Institute of Economic Research (Chinese Taipei)



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APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Session 2

Key Issues on Strengthening Public-Private Partnership on Reducing Post-harvest losses

- **Dr. Ishikawa MASANOBU**, *Kobe University (Japan)*
- **Mr. Yau-Kuen HUNG**, *Chairman, Fwusow Industry Co., Ltd. (Chinese Taipei)*
- **Alfred SCHMIDLEY**, *Scientist, International Rice Research Institute (U.S.A)*
- **Mr. Thanawat SIRIKUL**, *APEC ATCWG & PPFS Program Director (Thailand)*
- **Mr. John KEOGH**, *GS1*
- **Dr. Emily Ching-cheng CHANG**, *Research Fellow, Institute of Economics, Academia Sinica (Chinese Taipei)*





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APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Session 3

APEC Best Practices in Reducing Post-harvest losses on Food Crops

- **Dr. Jen-Pin CHEN**, Deputy Director General, Agriculture and Food Agency, Council of Agriculture (Chinese Taipei)
- **Mr. Nick CHEN**, Executive Director, Yeedon Enterprise Corp. (Chinese Taipei)
- **Mr. Yu-Hsiang CHIU**, Manager of Planning Department,, KUA KUA YUAN ENTERPRISE CO., LTD. (Chinese Taipei)
- **Mr. Naoji KATO**, Executive Vice President, Nichirei Foods Inc. (Japan)
- **Mr. Christ LEE**, Sunsui Enterprise Corp. (Chinese Taipei)





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APEC seminar on “Strengthening Public-Private Partnership to Reduce Food losses in the Supply Chain”

Session 4

Next Steps and Action Plans for Reducing Post-harvest losses in APEC

- MYP’s Future Action Plan and Toolkit Idea
- Discussions on:
 - Contemplating Project Deliverables: Methodology, Toolkit, and Dataset;
 - Setting MYP’s Milestones and Checkpoints for Next Years
- Wrap-up and Recommendations





2013 APEC Seminar Review – Project Deliverables and Sustainability

- **APIP-PHLOWS Webpage**
 - ✓ Methodology → PHLOWS Calculation Template
 - ✓ Dataset → Input and Output for PHLOWS
 - ✓ Toolkits → Provide Solutions and Contact Info

<https://sites.google.com/site/apecharvestlost/>

APEC
Asia-Pacific
Economic Cooperation

APEC Information Platform on Post Harvest Loss and Waste System (APIP-PHLOWS)

Home Definition Methodology Food Balance Sheet Conversion and Loss Rates **Calculator** Loss Tables Loss Maps Loss Reduction Network

APEC Member Economies List:

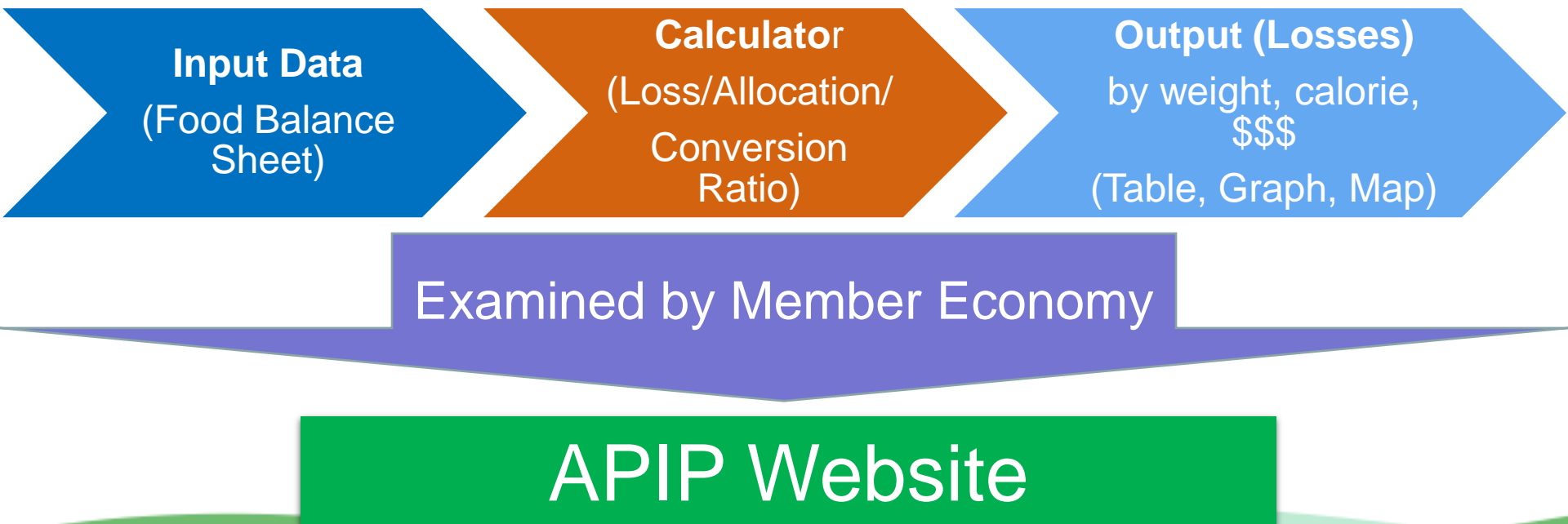
- Australia
- Brunei Darussalam
- Canada
- Chile
- People's Rep of China
- Hong Kong, China
- Indonesia
- Japan
- Republic of Korea
- Malaysia
- Mexico
- New Zealand
- Papua New Guinea
- Peru
- The Philippines
- Russia
- Singapore
- Chinese Taipei
- Thailand
- The United States



APEC Information Platform on Post Harvest Loss and Waste System (PHLOWS)

Purpose

- Support C food security policy formulation
- Identify opportunities to improve value chains
- Monitor and evaluate loss reduction activities





Template for Loss Assessment

- **Food Balance Sheet** (recent update)
- **Loss Ratios** along Food Supply Chain
- **Allocation Ratios** for Food/Nonfood Usage
- **Conversion Factors** into Calories
- **Food Prices** (producer, wholesale, retail) for converting into economic cost



Toolkits for Loss Reduction

- **Function**

- Provide **practical solutions** to reduce food losses at each stage of food supply chain
- Provide **business opportunities** for all actors in food supply chain

- **Main Content**

- **Technologies available**

- Stage of supply chain
- Product types
- Sectors (Public/Private)

- **Best Practices (Public-Private Partnerships)**

- Government Agencies
- Associations
- Research Institutions
- NGOs

- **Capacity Building**

- Training courses
- Contact



Achievements

Key Findings on Food losses

Only 5% of agricultural R&D investment goes into post-harvest issues.

Many promising postharvest technologies and management options available.

Recycling is an option for nonedible losses, but needs government support.

Public-Private Partnership (PPP)

Public sector + Private sectors + NGOs & Academia

Need to accelerate and support PPP initiatives

Education of supply-chain actors stakeholders + consumers

Recommendations

- APEC definition/standard & indicators for food losses assessment
- Strengthening PPP to find most cost-effective solution & best practices
- Focal Point Network (FPN) with targeted outputs (methodology, toolkit and dataset)
- More seminars on food losses in alignment with other APEC fora



**APEC
Food
Security**



Follow Ups

2013 seminar on Food losses

- 
1. Establish a Focal Point Network (FPN): Each economy appoints a representative as a FPN member.
 2. Enrich the methodology, toolkit, and dataset on reducing food losses through research
 3. Monitor implementation and provide feedback of project Deliverables through regular report to the FPN
 4. Stocktaking Preparation: stocktaking before launching capacity-building
 5. Encourage economies to host the next reducing food losses seminars



Field Trip



Asia-Pacific
Economic Cooperation

8 August, 2013
Field Trip to Yilan County





***Thank You
for Your Attention!***