

Collated Recommendations

Ching-Cheng (Emily) Chang

Academic Sinica

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Taipei June 30 ~ July 2, 2021

Workshop **Reducing Food Loss and Waste**
along the Food Value Chain in APEC during and post COVID-19 Pandemic

Our Aims

1. Discuss **challenges** by COVID-19
2. Build **capacity** during recovery
3. Share **best practices & technologies**
4. Address APEC **agenda** beyond 2020



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Our Vision

APEC Putrajaya Vision 2040 (2020 Kuala Lumpur Declaration):

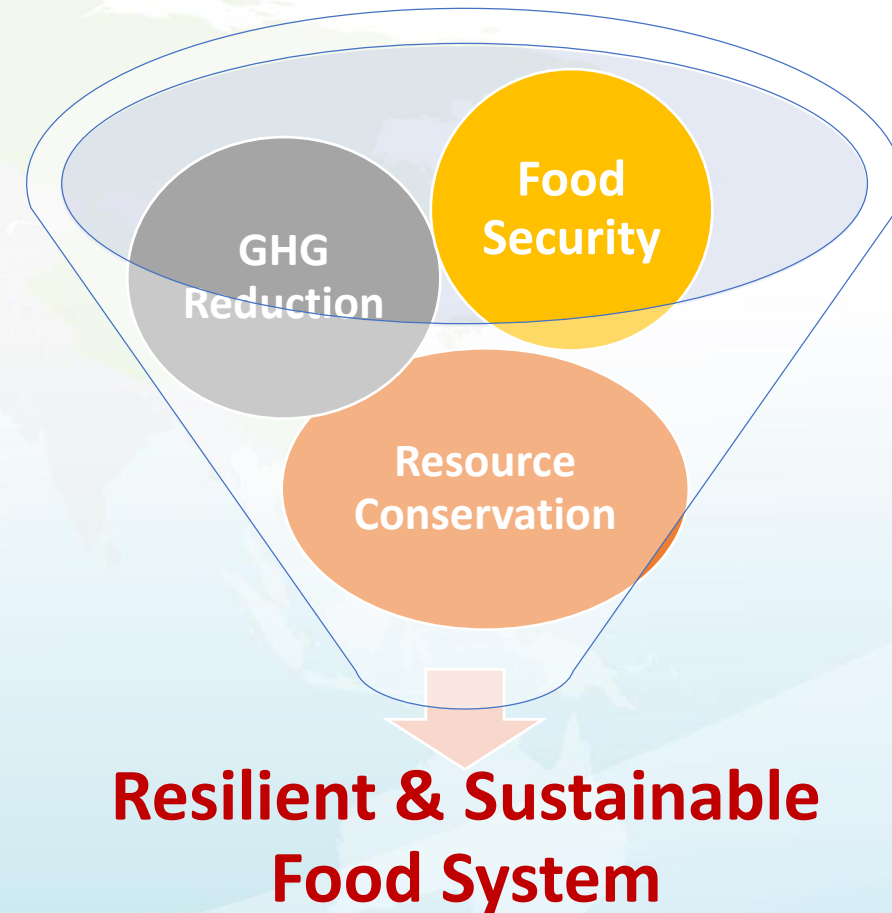
- Our vision is an ***open, dynamic, resilient, and peaceful*** Asia-Pacific community by 2040....
- ...
- To maintain APEC's unique position as the ***premier forum*** for ***regional economic cooperation*** as well as a modern, efficient and effective ***incubator of ideas***, we will embrace continuous improvement of APEC as an ***institution*** through ***good governance*** and ***stakeholder engagements***.
- ... with an appropriate ***implementation plan*** and ***review of its progress***.

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Summary of DAY 1 (1)

Maximo Torero (Keynote)

- FLW: Opportunity of a *Triple Win*
- Examples on How to reduce FLW
- Importance of
 - Scientific Research,
 - Government Incentives,
 - Public-Private Partnership,
 - Knowledge Sharing among Economies,
 - Consumer Education.



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Summary of DAY 1 (2)

Dawn Thilmany (US)

- **Consumers responses from survey**
 - Trend towards e-commerce
 - Away-from vs. At-home eating
- **Trade disruptions**
 - Sector-specific in nature
- **New models in the US**
 - Food-box programs
 - More local nodes/hubs
 - Economies of scale maintain in retail

Kevin Chen (P. R. China)

- **Disruptions**
 - income/remittance
- **Policy responses in China**
 - Monitor market to avoid panic
 - Promote e-commerce (3 models)
- **IFPRI's global response**
 - Build resilience into food system
 - Maintain open trade
 - Provide financial support
 - Leverage private investment

Summary of DAY 1 (3)

Miranda Miroso (New Zealand)

• 8 challenges

- Consumption channel change
- Export
- Meat processing
- Labor shortage
- Household waste
- Increase food bank demand
- Need for long-term solutions
- Biological byproducts

• Solutions

- Innovations
- Government support (funding and policy)
- Awareness and education

Mark Mitchell (Australia)

• Challenges

- Doubled demand for food relief (2019 to 2020)
- Change in consumer values: food safety, provenance, AUS-made, organic, minimal packaging.
- Labor shortage
- Shipping cost increased

• Solutions

- International Freight Assistance Mechanism
- PPP: AUS Food Pact
- Cold Chain:
 - quality management
 - training professionals

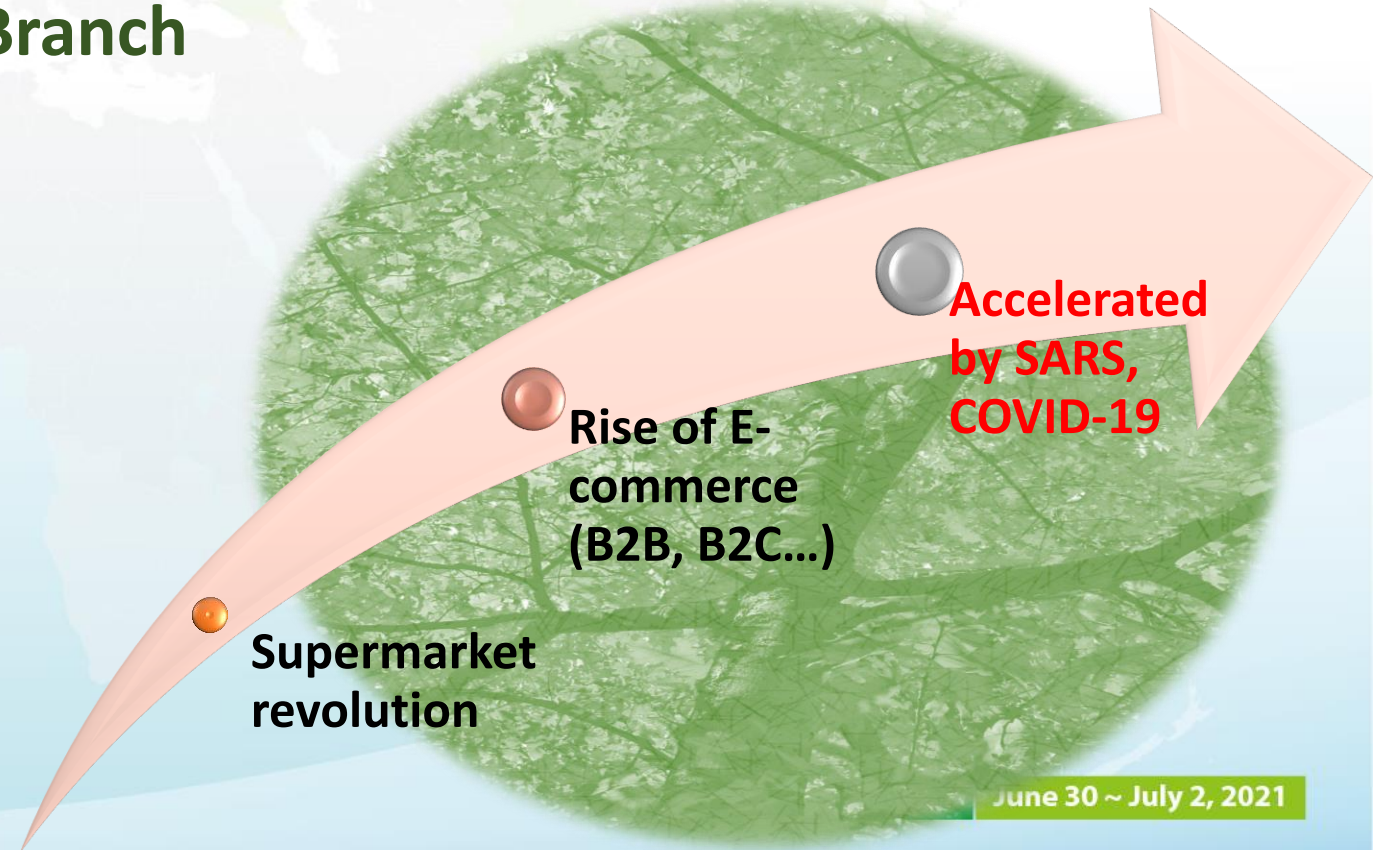
Summary of DAY 2 (1)

1. Thomas Reardon

- Rapid transformation of food value chain → Tree Trunk
- Rise of e-commerce → Tree Branch

Demand Driver

Supply Driver



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Summary of DAY 2 (2)

Best practices/info sharing

• Chile

- Commission on reduction of FLW
- Strategy for organic waste
- Proposed Bill for distribution of food
- Micro food banks

• Japan

- NTT DOCOMO's EcoBuy App & ESG initiatives

• Chinese Taipei

- E-commerce & Delivery Intermediaries
- Carrefour & Food Banks
- Smart agriculture, post-harvest tech
- Food Agri Education Law

• Thailand

- Increase shelf life
- Environment-friendly practices
- Food sharing

• Vietnam

- Nestlé's reusing organic waste to generate electricity

Issues to be addressed:

- Increase capacity with efficiency
- Flexible food safety
- Connect with Food Banks
- Promote responsible consumption
- Youth involvement
- Public-private partnership
- Circular economy
- Consumer awareness
- Behavior change education

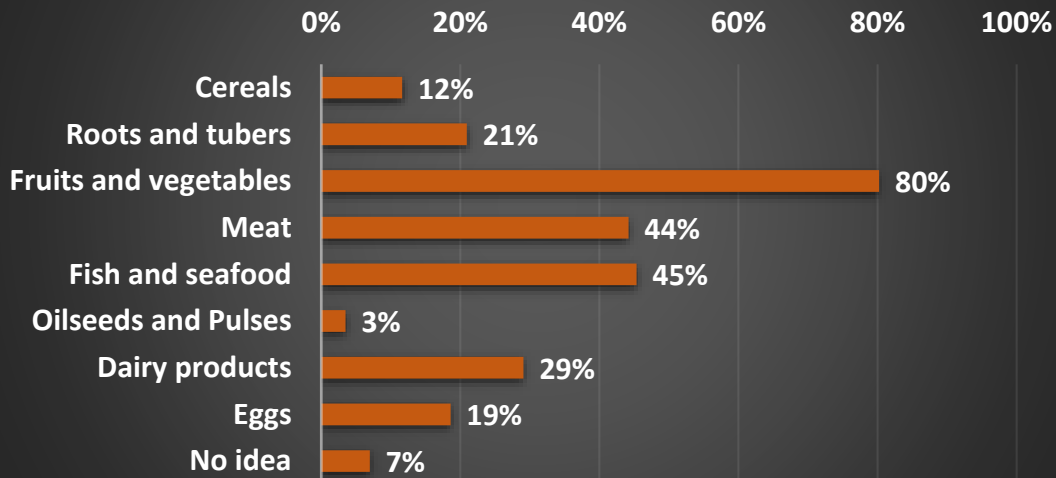
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Summary of DAY 2 (3)

Kenneth Dy: APEC Survey Report

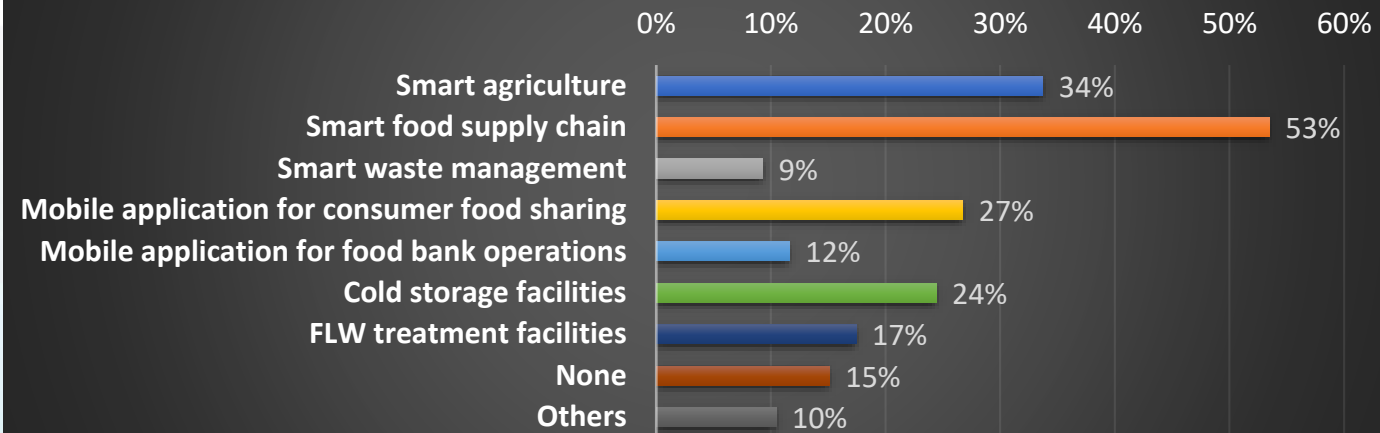
- Policies
- Challenges
- Impacts
- Expectations
- Solutions

Affected commodities



SOLUTIONS

Infrastructure & Technology



More solutions available? Yes, but

Need for **cross-ministerial collaboration** of agencies in charge of agriculture, industry, social welfare, and environment.

Summary of DAY 3 (1)

Dana Gunders (ReFED)

- ✓ **Data-Driven Solutions** in:
 - (a) *Insights Engine* and (b) *Roadmap to 2030*
- ✓ **7 Key Action Areas** (*first five grouped*):
 - **Prevention** (optimize harvest, enhance distribution, refine management, maximize utilization, reshape consumer environments)
 - **Food Rescue**
 - **Recycling** anything that remains

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Summary of DAY 3 (2)

Brian Lipinski (WRI)

- **Economy Level** → Data, Stakeholders, Policy
- **Global Agenda** → **10 interventions** to scale-up
 1. Develop strategies
 2. Create public-private partnerships
 - 3. Launch a “10 × 20 × 30” initiative** to get supply chains working.
 4. Invigorate efforts to reduce smallholder losses
 5. Launch a “decade of storage solutions”
 6. Shift social norms.
 7. Go after the hotspots of GHG emissions
 - 8. Scale up financing.**

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Summary of DAY 3 (3)

Panel Session (led by Phillip Houlding, PPFS Chair)

➔ Suggestions to *APEC Food Security Roadmap Towards 2030*

- Public-Private Partnership
- Inter-agency Collaboration
- Food Loss and Waste Champions
- Economy-specific Indicators for Self-improvement, not comparison
- Suggestions to Heighten the Specificity of the Roadmap

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FLW in Roadmap 2030 (Draft)

“Reducing food loss and waste provides benefits in several areas; it improves *food security and availability, reduces greenhouse gas emissions and mitigates climate change*. In 2019, the 5th APEC Ministerial Meeting on Food Security acknowledged that “... reducing food loss and waste can also be an adaptive and mitigation option to reduce the food security risks of new climate scenarios ...” Reductions can also *save money* for farmers, food processors, foodservice operators, retailers, and households, while small and midsize enterprises can *realize business benefits* in the process.”

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FLW in Roadmap 2030 (Draft)

→ ***Sustainability:***

“Provide capacity building and best practice sharing workshops to support member economies' **individual and collective efforts** to adopt and align with the **UN Sustainable Development Goals 12.3** “by 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses,” with **specific indicators based on each economy’s respective situation** and as **measured** by the **UN/FAO Food Waste Index (FWI)** and a **Food Loss Index (FLI)**.”

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Final Remarks

COVID-19 Recovery →

APEC need a “**Resilient**” Food System

Future Challenges:

- ✓ Urbanization, population growth,... (Socio-Economic)
- ✓ Climate change, extreme weather, ... (Climatic)
- ✓ Resource limitation, (Ecological)
- ✓ Disease, Pandemic,... (Biological)

Transformation of Food Value Chain

- ✓ Supermarket revolution
- ✓ Digital revolution , E-commerce,...
- ✓ Changes in consumer behavior, diet,

An **APEC Action Plan**
for Reducing Food Loss
and Waste

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Thank you

Comments/Suggestions welcome

*For more information, contact: Ching-Cheng Chang
Institute of Economics, Academia Sinica.
emily33662666@gmail.com*

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