

Enhancing Connectivity of APEC Grain Standards & Small Farmer and SMEs' Food Loss-Reduction Technology and Experience

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OUTLINE



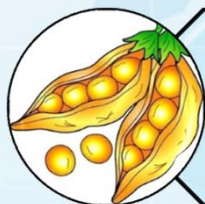
BACKGROUND



ACTIONS IN 2016



OUTCOMES



NEXT STEP

1. BACKGROUND

- Facilitating food trade through enhancing connectivity of APEC grain standards is beneficial for improving food security
- 2014, APEC Leaders endorsed the “Action Plan to Enhance Connectivity of APEC Food Standards and Safety Assurance” & “Action Plan for Reducing Food Loss and Waste”

1. BACKGROUND

■ APEC Food Security Roadmap Towards 2020:

- APEC economies will strive to reduce food loss and waste by 10% compared with the 2011-2012 levels by 2020 in the Asia-Pacific economies



2. ACTIONS IN 2016

- Research report on connectivity of grain standards
 - Collect grain standards of international grain standards
 - Make comprehensive analysis and application and specific of
 - Propose the recommendations

2. ACTIONS IN 2016

- Seminar on “Enhancing Connectivity of APEC Grain Standards & Small Farmer and SMEs' Food Loss-Reduction Technology and Experience”
 - Beijing, August 24 to 25, 2016
 - 90+ Participants from 13 APEC economies
 - 19 Speakers shared their grain standards system and best practices in food-loss reduction
 - Representative from ISO presented the international standardization on Cereals and Pulses

2. ACTIONS IN 2016

- Experts and Participants discussed the research report on connectivity of APEC grain standards and the recommendations
- Shared the Practice and Experience of Food Loss-Reduction in post-harvest handling, grain storage, food processing and consumption

3. OUTCOMES

- Connectivity of APEC Grain Standard
- The research report of this project analyzes and compares the technical differences in the provisions of wheat, rice, corn and soybean standards of APEC economies, and puts forwards the following conclusions and recommendations on enhancing connectivity of APEC grain standards

3. OUTCOMES

-Connectivity of APEC Grain Standard

- **Almost all APEC economies have formulated grain technical quality standards, which are set by government or industry, mandatory or voluntary, and set for different purposes. These technical quality standards have similar content and basic requirements, such as moisture and foreign material.**

3. OUTCOMES

-Connectivity of APEC Grain Standard

- Term definitions
parameters, grade

International
Trade

EST

METHODS specified by the standards

Misunder-
standing

Efficiency

Cost
Burden

3. OUTCOMES

-Connectivity of APEC Grain Standard

**Test methods of grading
parameters, important roles
in grain pricing!!!**

3. OUTCOMES

-Connectivity of APEC Grain Standard

- The connectivity of grain standards will contribute to facilitating grain trade, supporting industrial development, promoting technical progress, and playing a significant role in promoting the food security of Asian-Pacific region.

3. OUTCOMES

- Food-loss Reduction

- **Chinese government conducted series of action plans to reduce food loss and waste**
 - **Post-harvest handlings: Popularizing the new technologies and facilities to small farmers and SMEs**
 - **Food consumption: Giving publicity to the masses to save food in table**

3. OUTCOMES

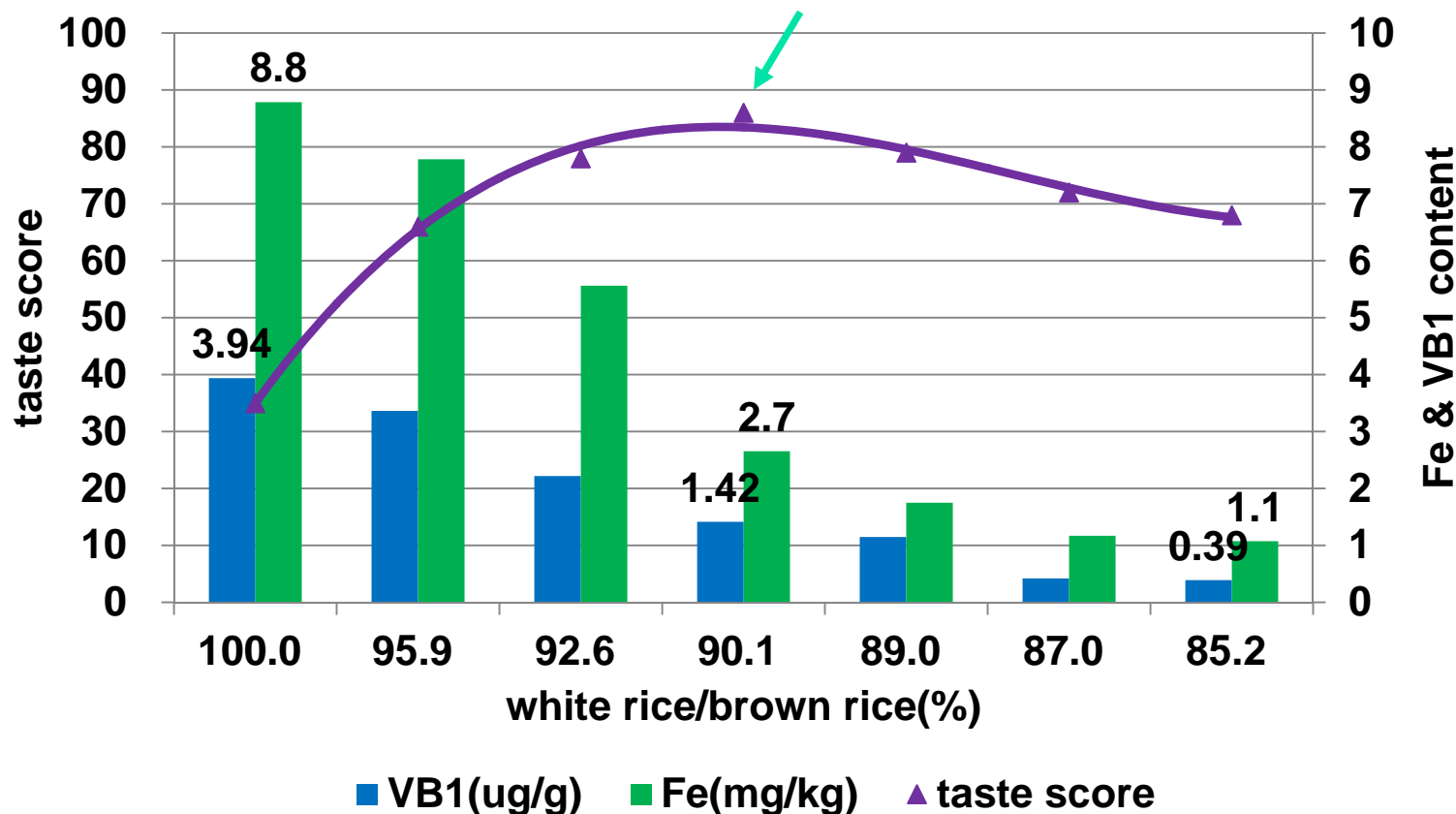
- Food-loss Reduction

- **Grain storage**
 - Storage facility for small farmers
 - According to Climate Conditions
- **Food processing**
 - Circular Economy Mode
 - Reduction of milling degree in rice



3. OUTCOMES

- Food-loss Reduction



- Over-milling causes at least 5% waste of grain, 10-20% nutrition loss and a quarter more energy cost.

4. NEXT STEP

It is recommended that PPFS assign related working group responsible for the cooperation of grain standards, and establish the group of experts

- **to share best practices of grain standard system**
- **to explore the feasibility of widely-acceptable term definitions and methodologies of Grain standards**
- **to discuss the new problems and needs of industry, especially of the private sectors and consumers**
- **to review outcomes and impacts**

4. NEXT STEP

For the initial technical work of the experts group of connectivity of APEC grain standards,

- **Compare the test methods of important factors, such as test weight, foreign material, moisture, protein content in the specific commodity**
- **Support the study and relevant training of the terms definitions on defective kernel , and the development of visual reference images**

4. NEXT STEP

- **Strengthen the connection and cooperation between PPFS and related APEC standard committees such as CTI and SCSC, highlight the importance of grain standards and support the initiative on APEC grain standards cooperation for trade facilitation.**

4. NEXT STEP

- Enhance sharing the experiences and information of reducing food loses and wastes
- Popularize the relative technologies and practices in food chain, especially in grain storage and food processing, in small farmers and SMEs.

Thank you for your attention !

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