



**Asia-Pacific
Economic Cooperation**

2017/SOM1/SCSC/006

Agenda Item: 5.2.1

**Report on CTI 08 2016T – Regional Workshop on
Measurement and Standards for Grain Food Safety
and Free Trade**

Purpose: Information

Submitted by: China



**First Sub-Committee on Standards and
Conformance Meeting
Nha Trang, Viet Nam
20-21 February 2017**



**Work Progress of CTI 08 2016T (SCSC) –
Regional Workshop on Measurement and
Standards for Grain Food Safety and Free Trade**

Project Overseer: LI Hongmei

Feb.2017



Outline

- 1. Brief introduction of the project**
- 2. Overview of the workshop**
- 3. The output**
- 4. Future work**



Identifies measurement challenges in grain food safety

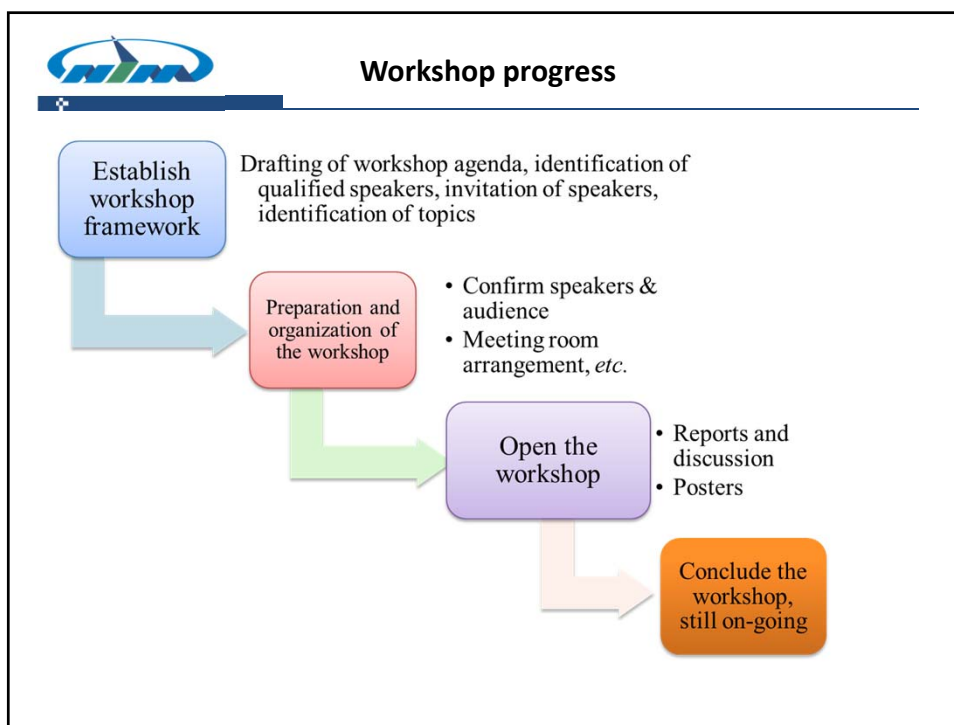
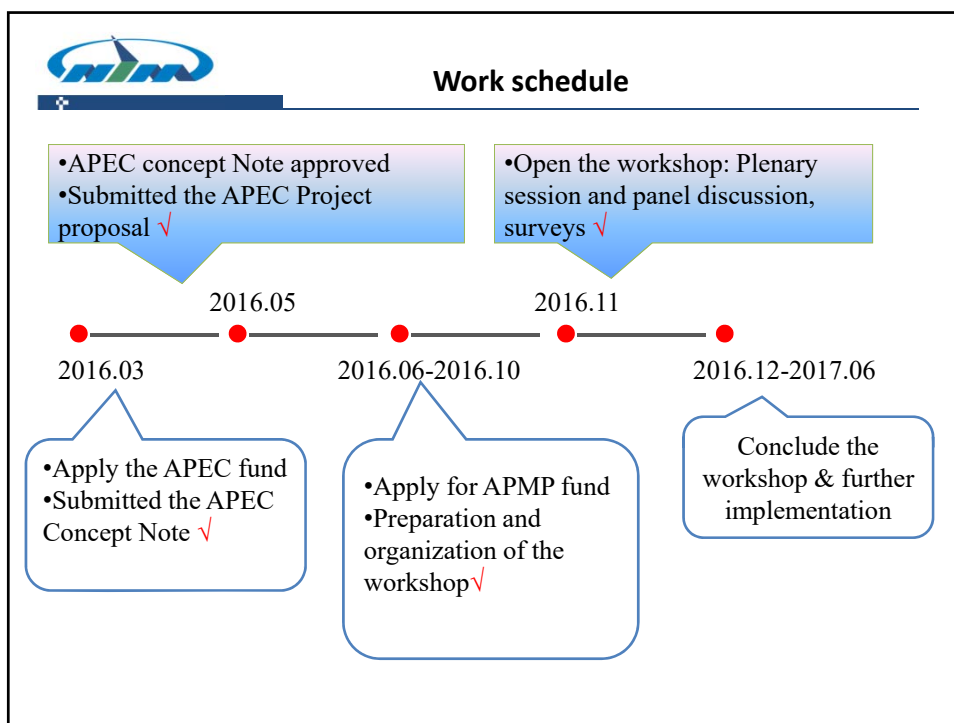
- ✓ Grain food is a **major nutrition source**. Among 10 largest grain exporting countries in the world, 6 are from APEC, such as the United states, Australia and Canada.
- ✓ Grain safety main concerned with different contaminants, like mycotoxins, heavy metals, pesticide residue, microorganism, etc.. Among them, **mycotoxins** and **heavy metals** are two major harmful influence factors.
- ✓ Grain safety is the basis of national economic security, and is the core of the production, processing, **trade**, reserve and consumption balance.
- ✓ Measurement and standards provide **accurate and internationally recognized methods** to assure grain safety.
- ✓ Harmonized global measurement and standards can improve quality control system in developing countries, **reduce economic loss and trade disputes**.



Priority topic

APEC Regional Workshop on Measurement and Standards for Grain Food Safety and Free Trade and 2nd Meeting of APMP Focus Group on Food Safety (FSFG)

- To share the latest technological achievements in grain safety related measurements and standards, in particular, RMs and measurement methods for mycotoxins and heavy metals
- To identify priority areas and urgent needs for research, training, policy improvement and multilateral cooperation, and explore ways of enhancing regional collaboration
- To develop an action plan for developing measurement standards and capabilities in APEC economies relating grain food safety, where measurement challenges will be highlighted
- To develop recommendations for subsequent activities to improve local and regional measurement and standards infrastructure, contributing to food safety in the region





Outline

1. Brief introduction of the project
2. Overview of the workshop
3. The output
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Overview of the workshop





Overview of the workshop

Schedule:

- Nov. 9-10, Pullman Danang Beach Resort, Da Nang, Viet Nam

Topics:

- Advance measurement techniques of mycotoxins and heavy metals in grain food, latest measurement standards, certified reference material development, etc.

Format:

- Plenary session , Panel discussion & Surveys

Delegates:

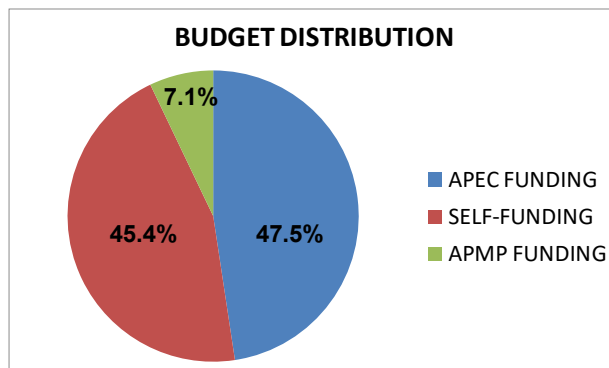
- Metrology community: NMIs of APEC member economies, APMP & European (BIPM, IRMM)
- Policy community and accreditation community: APLAC, APLMF
- Government agencies, industries, food analysis labs and related research institutions

Budget:

- APEC funding: \$93,423 USD (mainly for travel of speakers and participants), self-fund: \$53,000 USD
- APMP funding: \$14,392 USD (mainly for travel of 1 speaker & APMP non-APEC economy)



Budget





Delegates

Delegates: 52 participants from 25 economies, covering 33 organizations

1. APEC

- 18 delegates out of 21 APEC members

2. APMP

- 18 delegates from 24 Full APMP Members
- 2 delegates from 8 Associate APMP Members
- 9 delegates from 11 APMP FSFG members

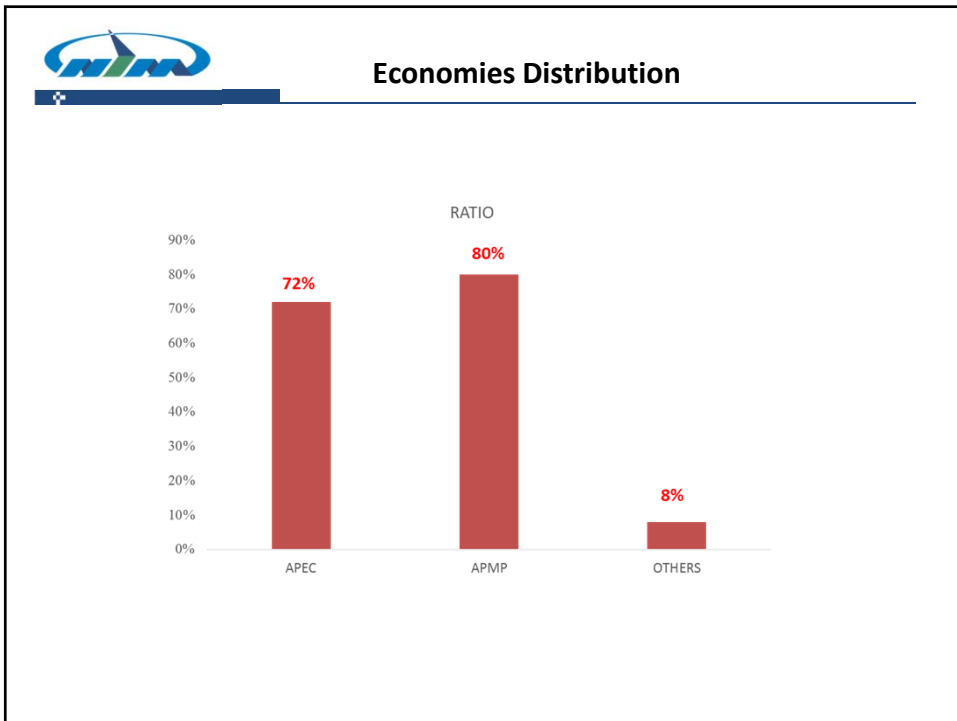
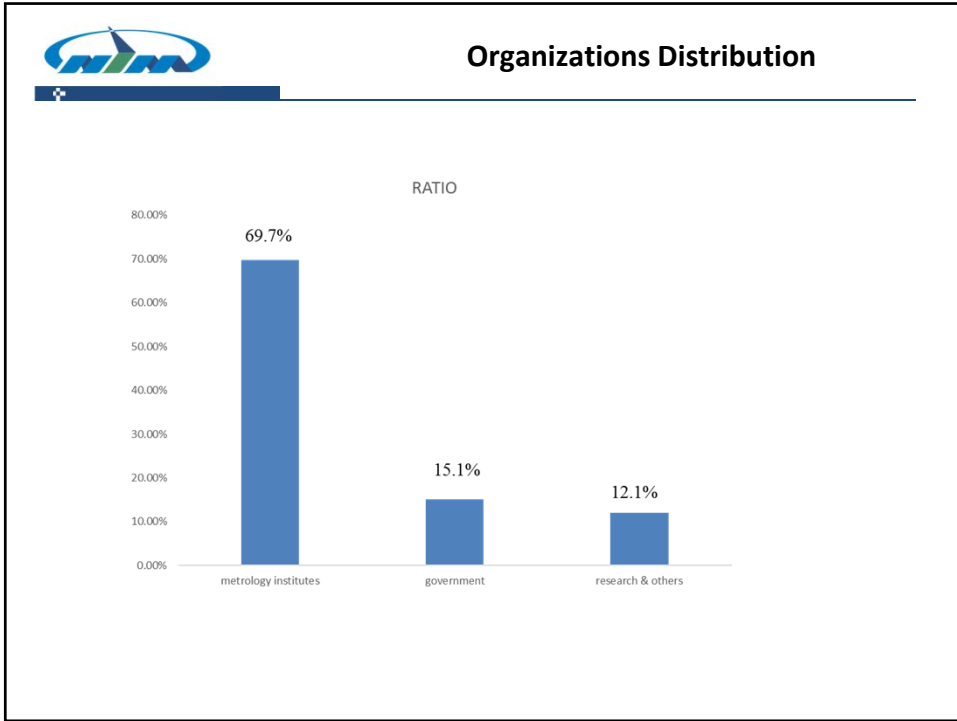
3. Other organizations:

- BIPM (1), APLAC (1), APLMF(1), *etc*



Delegation list

No.	Economy	Organization	Number of Participants	No.	Economy	Organization	Number of Participants
1	Australia	National Metrology Institute, Australia (NMI)	1	15	People's Republic of China	National Institute of Metrology, China (NIM); Oilcrops research institute, Chinese academy of agricultural science, China; Import and Export Food Safety Bureau, AQSIQ	9
2	Bangladesh	Designated Reference Institute for Chemical Measurements (DRICM)	1	16	Republic of Korea	Korea Research Institute of Standards and Science (KRISS)	1
3	Cambodia	National Metrology Center (NMC), Cambodia	1	17	Russia	Department of technical regulations, Russian Grain Union; FSUE Ural Scientific Research Institute for Metrology, ROSSTANDART	3
4	Canada	National Research Council of Canada (NRCC)	1	18	Singapore	Health Sciences Authority (HSA), Singapore	1
5	Chile	National Institute for Agricultural Research (INIA-Rayentuel); Health Public of Chile (ISP)	2	19	South Africa	National Metrology Institute of South Africa, NMISA;	1
6	Chinese Taipei	Taiwan Food and Drug Administration (TFDA)	1	20	Sri Lanka	Measurement Units, Standards and Services Department	3
7	France	Bureau International des Poids et Mesures (BIPM)	1	21	Thailand	National Bureau of Agricultural Commodity and Food Standards, Thailand; Center for Laboratory Proficiency Testing, CLPT; Industrial Metrology and Testing Service Centre,	5
8	Hong Kong, China	Government Laboratory, Hong Kong, China (GLHK)	2	22	The Philippines	Thailand Institute of Scientific and Technological Research	2
9	Indonesia	Directorate of Metrology, Ministry of Trade; The National Standardization Agency of Indonesia;	2	23	The United Kingdom	Industrial Technology Development Institute (ITDI), DOST, Philippines	2
10	Japan	Asia Pacific Legal Metrology Forum, APLMF; National Metrology Institute of Japan (NMIJ)/AIST	2	24	The United States	Laboratory of the Government Chemist (LGC), UK	1
11	Malaysia	National Metrology Institute of Malaysia; Ministry of Health, Malaysia	3	25	Viet Nam	National Institutes of Health (NIH); United States Department of Agriculture, Grain Inspection, Packers and Stockyards Administration, USDA-GIPSA	2
12	Mexico	Senasica/Sagarpa/Mexico;	2			Vietnam Metrology Institute; Metrology Department - Directorate for Standards, Metrology and Quality (STAMEQ) - Ministry of Science and Technology - Viet Nam	2
13	Pakistan	National Physical & Standards Laboratory (NPSL), Ministry of Science & Technology, Islamabad, Pakistan	1				
14	Papua New Guinea	PNG National Institute of Standards and Industrial Technology.	2				
					25 economies		52





Panel discussion

Panel topic 1 -- mycotoxin

Panel topic 2 – heavy metals

The discussion group identified the following future activities to be considered for future support by APEC in the short term:

- A workshop on PT scheme provision and CRM production for Mycotoxins/heavy metals in Grain Foods (focussing also on ISO 17043 and ISO 17034 requirements)
- Raising awareness of training programmes that were on offer around the world on Mycotoxin analysis/measurement
- A workshop for National Ministries/Regulators on Measurement Quality Infrastructure requirements to ensure Safe Food and Feed and Avoid Technical Barriers to Trade



Survey

Survey 1: APEC Project evaluation survey

- Workshop arrangement
- Relevance to the delegates
- Achievements
- Next step
- Improvements

Survey 2: Technical survey

- Capabilities on measuring mycotoxin / heavy metal in grain
- Regulation situation
- Short/ long term capability development
- Training needs



Summary of the workshop -- 1

- ✓ 16 plenary presentation, experts from 10 economies focused on regulation, standards, traceability in chemistry, testing methods, and PT activities on mycotoxin and heavy metal topics
- ✓ 16 posters from 12 economies
- ✓ 2 panel discussion
- ✓ 52 Surveys – received 41
- ✓ Gender equality: 24 out of 52 participants are female, and efforts will continue be made for gender equality.
- ✓ Budget is carried on as planned



Summary of the workshop -- 2

- ✓ Delegates all get consensus about the importance of the topic of the workshop
- ✓ Distinguished presentation & Poster communication received high evaluation from delegates
- ✓ Panel discussion receive some common interest for next step activity
- ✓ Acknowledgement received from attendance



