



**Asia-Pacific
Economic Cooperation**

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Session: 7.3

Role of Proficiency Testing in Building Laboratory Capacity in United States

Submitted by: United States



**Food Safety Cooperation Forum Partnership
Training Institute Network Proficiency Testing
Workshop
Beijing, China
10-11 September 2014**

Role of Proficiency Testing in Building Laboratory Capacity

Renee Hancher

U.S. Department of Commerce

International Trade Administration

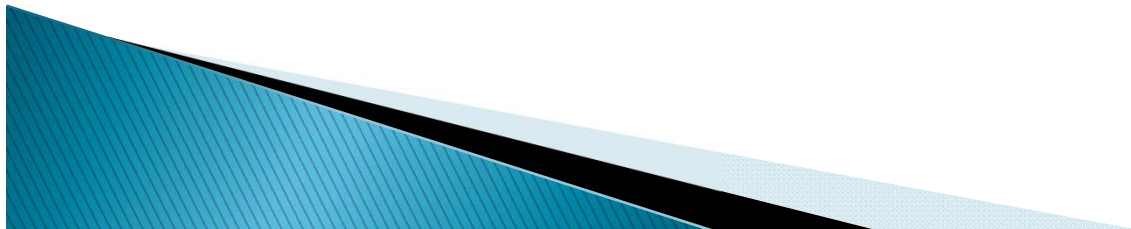
September 2014



Food Safety
Cooperation Forum
PTIN
Partnership Training
Institute Network

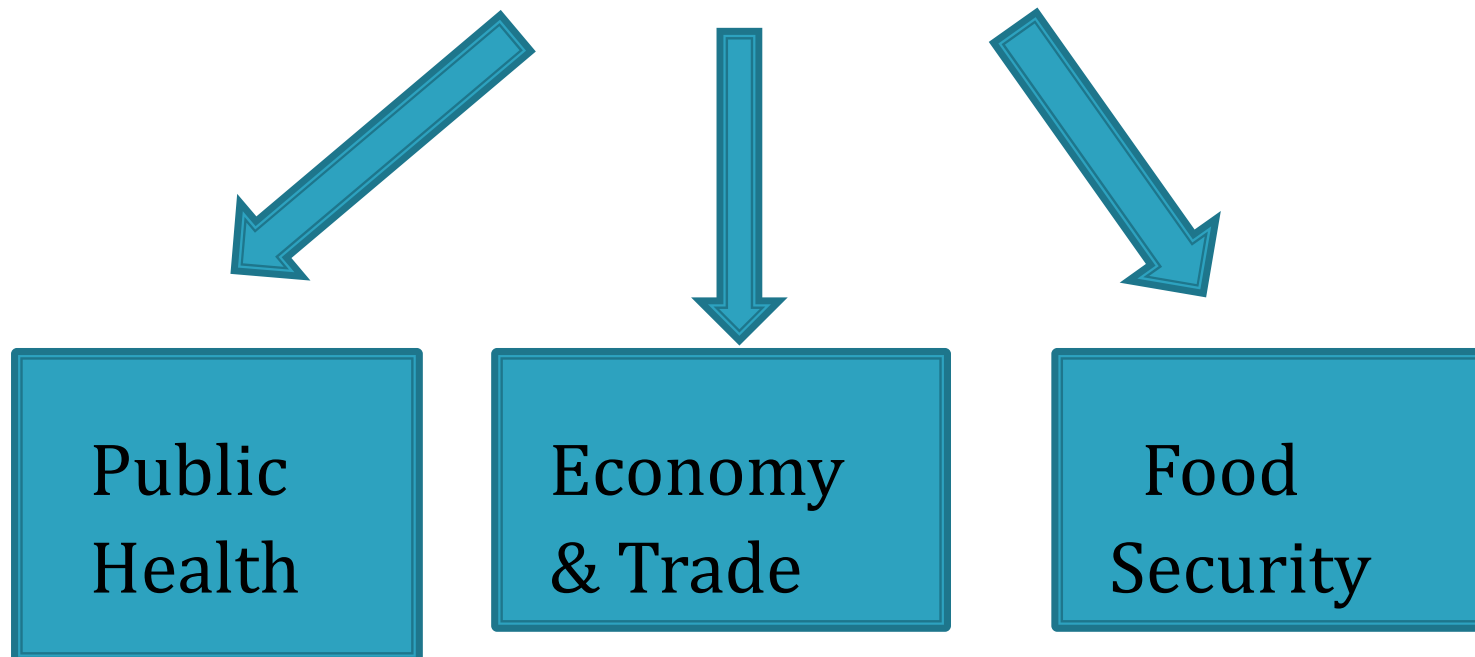
Food Safety Challenges

- ▶ Complex global food supply chain
- ▶ Rising levels of food trade including between developed and developing economies
- ▶ Differing levels of adherence to international agreements (WTO SPS/TBT) and standards (Codex) and lack of understanding on how to meet them



Food Safety Incidents Are Costly

Food Safety Incidents Impact



Trade Context

- ▶ Food safety is an APEC priority
- ▶ Laboratory practices have direct trade impacts
- ▶ Consistent application of international standards and best practices



APEC Takes Action



FSCF Food Safety
Cooperation Forum

PTIN Partnership Training
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Priority Areas

Stronger food safety systems + improved understanding of regulatory compliance

=

Fewer food safety incidents and trade disputes

Supply Chain
Management

Laboratory
Capacity

Incident Management

Risk Management

Food Safety Regulatory
Systems

FSCF PTIN Expert Working Group

- ▶ Focus on improving laboratory capability through infrastructure improvements and training needs
 - Metrology
 - Sampling
 - Quality assurance
 - Analytical methods
 - Data analysis
 - Accreditation

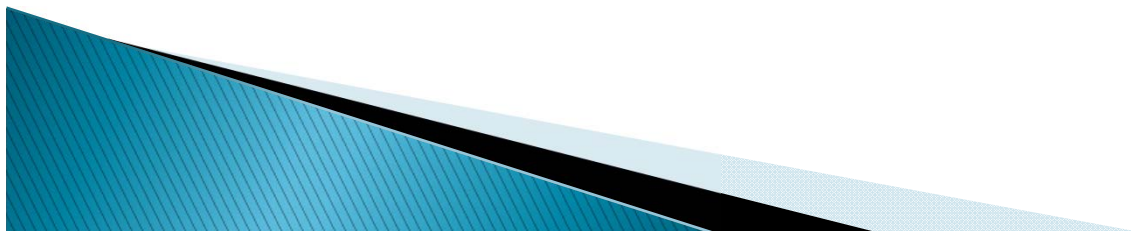


FSCF Lab Capacity Building Efforts

2010: FSCF Expert Working Group identifies laboratory capacity as a priority area

2011: Workshop in Thailand on the global context of food safety

2012: Workshops in Peru, Malaysia, and Vietnam



FSCF Laboratory Capacity Building Efforts

2013: Laboratory Competency Strengthening Initiative

- ❑ STAG established
- ❑ Needs Prioritization Workshop
- ❑ Roadmap/ Prioritization Tool
- ❑ Economy pilots

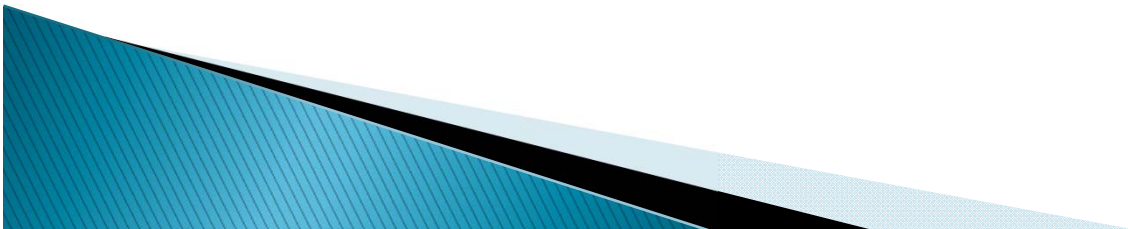


Benefits of Proficiency Testing

- ❑ Hands on work improves skill level
- ❑ Increase reliability of results
- ❑ Ensure laboratory technicians & managers are using appropriate methods & procedures
- ❑ Strengthen use of international standards and best practices

Benefits of Proficiency Testing

- ❑ Foundational for accreditation
- ❑ Key element of lab improvement toolbox
- ❑ Build regional communication and collaboration



Use of International Standards & Conformity Assessment Systems

- ▶ **ISO 17025 --- Testing and Calibration Labs**
- ▶ **ISO 17043----Proficiency Testing**
- ▶ **ISO/IEC 17011 ---Accreditation Bodies**
- ▶ **ISO/IEC 17040 ---Peer assessment**
- ▶ **CODEX Methods**



APEC Specialist Regional Bodies

Technical Infrastructure Development to Support Trade

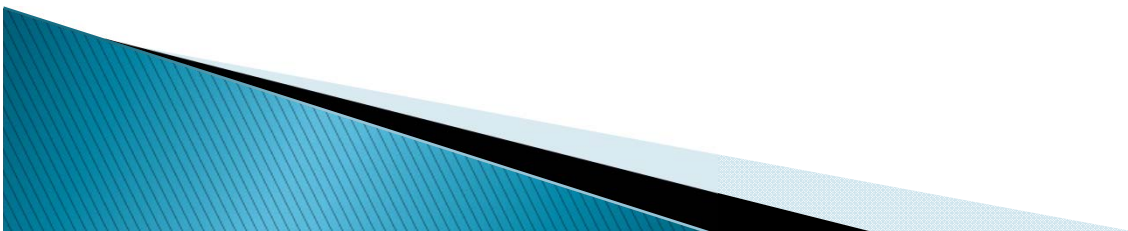
- ▶ Asia Pacific Laboratory Accreditation Cooperation (APLAC)
- ▶ Pacific Accreditation Cooperation (PAC),
- ▶ Asia Pacific Legal Metrology Forum (APLMF)
- ▶ Asia-Pacific Metrology Program (APMP)
- ▶ Pacific Area Standards Congress (PASC)

Collaboration and Communication



Lab Capability and Food Safety

- ▶ Rely on expert regional resources like APEC SRBs
- ▶ Explore ways to continue inter-laboratory collaborations to strengthen labs and build the FSCF PTIN lab network
- ▶ Consistent application of laboratory procedures and testing methods fundamental to facilitating food trade in the APEC region



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