

Contribution to the Safer World – PAC's Perspective

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Ms Chang Kwei Fern PAC Chair



Outline

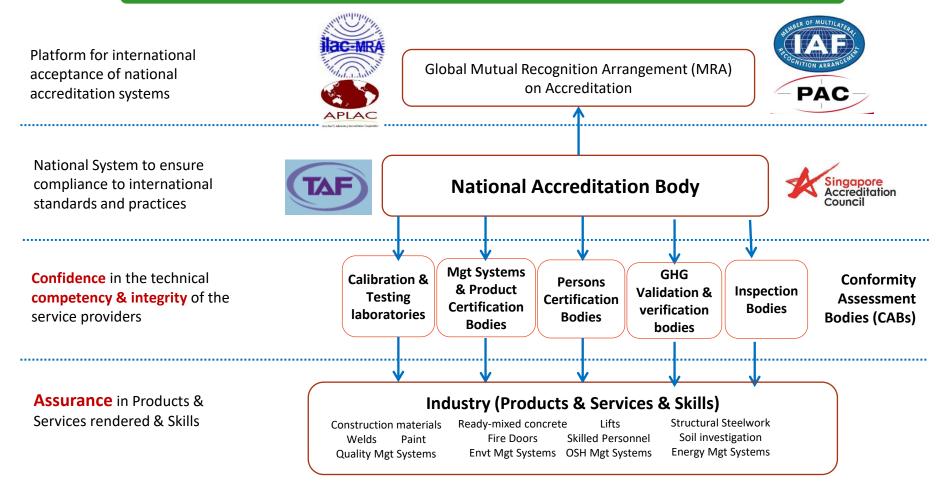
- Role of Accreditation
- Global Estimates and Trends in Workplace Safety and Health
- Global Estimates and Trends in Food Safety
- Assurance Domestically
- Recognition Regional and Internationally PAC Multilateral Recognition Arrangements (MLAs)



Role of Accreditation

Check the Checkers

"One Test/Certification by a Competent Body, accepted Worldwide"





Global Estimates of Workplace Safety & Health



Fatalities

2.78 million fatalities per year as a result of occupational accidents or work related diseases (7,500 people die every day; 1,000 from occupational accidents & 6,500 from work-related disease)



Injuries and Diseases 374 million non-fatal work related injuries and illnesses every year



Productivity
Poor occupational
safety and health
practices estimated to
cost 3.94% global Gross
Domestic Product each
year

Reference: Global Estimates of Occupational Accidents and Work-related Illnesses 2017, Published by WSH Institute (Singapore) & Ministry of Social Affairs and Health (Finland)



Global Trends in Workplace Health & Safety

- Introducing global standard for occupational health and safety management systems
 - ISO 45001 has the potential to push safety and compliance management forward on a global level
- New Legislation to ensure Workplace Health & Safety Compliance
- Digital Transformation
 - Adoption of predictive analytics and big data technologies to make data-driven safety and compliance decisions
- Rising demand for well-trained and certified safety personnel





Global Trends in Food Safety

- Food supply chain becomes increasingly global
 - increased potential for food safety issues and traceability is critical
- Global harmonization of Food Safety Standards and Regulations is a significant challenge
- - use of preventive tools such as HACCP for achieving food safety across the world
- Consumer Awareness
 - foodborne illness on the rise and is a key concern
- Technological and scientific breakthroughs
 - better technology and analytical methods in detecting chemical and microbiological hazards, giving quick results with better accuracy, reproducibility and reliability



WHO: An estimated 600 million – almost 1 in 10 people in the world – fall sick from consumption of contaminated food and 420,000 people die per year, resulting in the loss of 33 million healthy life years

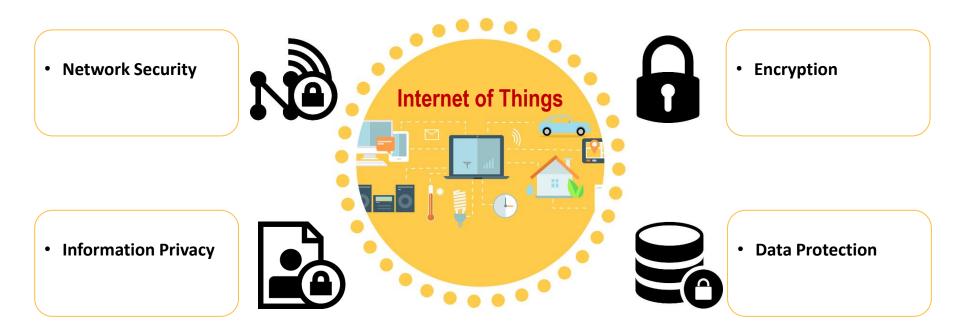


Accreditation - supports assurance across various industries





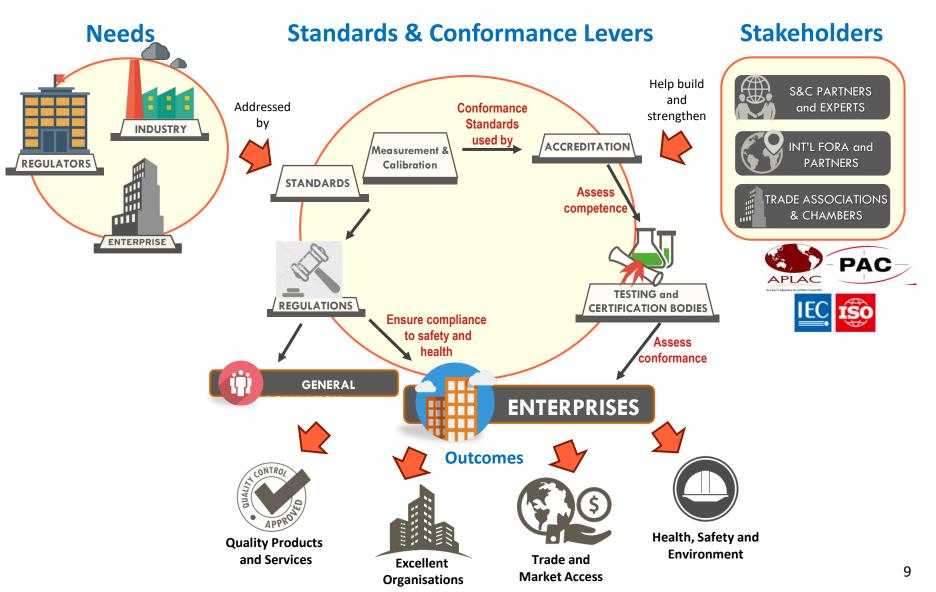
Accreditation supporting Emerging Areas



Assurance Domestically



Quality Ecosystem





Accreditation as a Tool to support Regulators

Ministry of Manpower (MOM) regulates the workplace safety and health in Singapore to safeguard the welfare of persons at work in a workplace.



- Requires accredited testing of safety helmets, shoes, relief values & accredited inspection of pressure vessels
- Requires training providers for safety courses to attain accredited certification
- Requires companies to obtain accredited OSHMS certification

Building and Construction Authority (BCA) ensures high safety standards and promotes quality excellence in the built environment.



- Requires all construction materials to be tested by accredited laboratories & ready-mixed concrete to be certified by SAC accredited certification bodies
- Requires inspection of structural steelwork and soil investigation to be done by accredited inspection bodies



Accreditation as a Tool to support Regulators

Agri-Food & Veterinary Authority of Singapore (AVA) operates a regulatory food analytical laboratory under Veterinary Public Health Laboratory (VPHL) which is accredited by SAC.

National Environment Agency (NEA) is responsible for regulations of water safety in areas such as swimming pools, cooling towers and water fountains. Leverages accredited water testing laboratories to support regulatory compliance.



Agri-Food & Veterinary

Authority of Singapore

- Conformance to International Standards
- Demonstrated capacity and capabilities to produce accurate testing results
- Provides assurance to regulatory counterparts locally and internationally for import and export testing



- Regulatory requirement of Heterotrophic Plate Count (HPC) or Standard Plate Count (SPC) testing on all swimming pools, cooling towers and water fountains
- Accredited water testing laboratories supports regulatory compliance with competent testing capabilities and facilities

Recognition Regional & Internationally



Pacific Accreditation Cooperation (PAC)

Association of accreditation bodies and other interested parties whose objective is to facilitate trade and Merger with Asia Pacific Accreditation Cooperation **commerce** among economies in the (APLAC), by 2019 Asia Pacific region PAC MLAs for Mgt Systems, Product, GHG, Periodic peer evaluation Persons ensures confidence on equivalence of accreditation results PAC undertakes the peer 34 Full Members.

25 Signatories to the

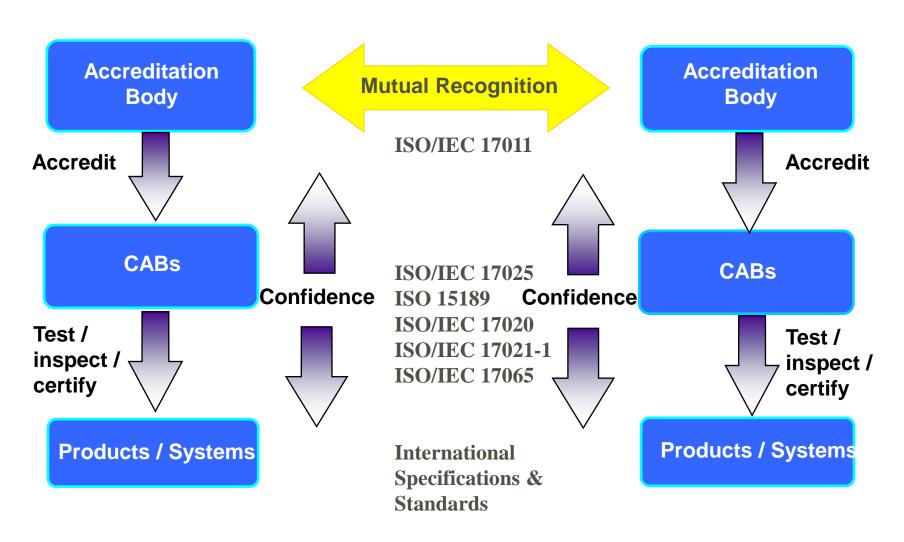
PAC MLA in

22 economies

evaluations of its member bodies and promotes the international **acceptance** of accreditations based on the equivalence of their accreditation programmes



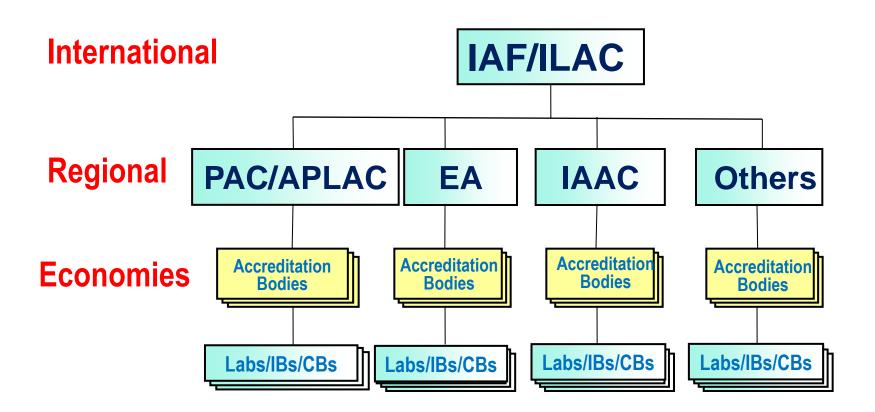
Mutual Recognition Arrangement (MRA)





World Accreditation Structure

Global mutual recognition through arrangements of international and regional co-operations





PAC Multilateral Mutual Recognition Arrangements

| | Structure of the PAC MLA | | | | | | | | |
|------------|--------------------------|----------------------------------|--------------------|-------------------|----------------------|-------------------|---|-----------------------------------|------------------|
| | Level 1 | ISO/IEC17011 | | | | | | | |
| Main Scope | Level 2 | Management Systems Certification | | | | | Product | GHG Validation Verification | Persons |
| | Level 3 | ISO/IEC 17021-1 | | | | | ISO/IEC 17065 | ISO 14065 | ISO/IEC 17024 |
| Subscopes | Level 4 | ISO/IEC 17021-3 | ISO/IEC 17021-2 | ISO TS 22003 | ISO/IEC 27006 | ISO 50003 | GLOBAL G.A.P. IFA General Regulations | N/A | N/A |
| | Level 5 | ISO 9001 QMS | ISO 14001 EMS | ISO 22000 FSMS | ISO/IEC27001 ISMS | ISO 50001 EnMS | GLOBAL G.A.P. IFA CPCCs | N/A | N/A |

MRA in the pipeline: OHS Mgt System (ISO 45001), Medical Devices Quality Mgt System (ISO 13485), FAMI-QS and Persons IPS as subscopes to its MLA



Thank you!