

A hand is shown from the bottom, holding a glowing, spherical network of white lines and nodes. The nodes are small circles, some of which are highlighted in a light blue color. The background is a soft, out-of-focus blue and white, suggesting a digital or network environment.

The role of Quality Infrastructure for export

Katharina Telfser, PTB Consultant

Quality Infrastructure

National QI



Standards

= Definition of properties, dimensions, tolerances



Metrology

= Guarantee of exact and reliable measurements



Testing

= Analysis of properties, ingredients, characteristics



Certification

= Conformity with requirements defined in standards



Accreditation

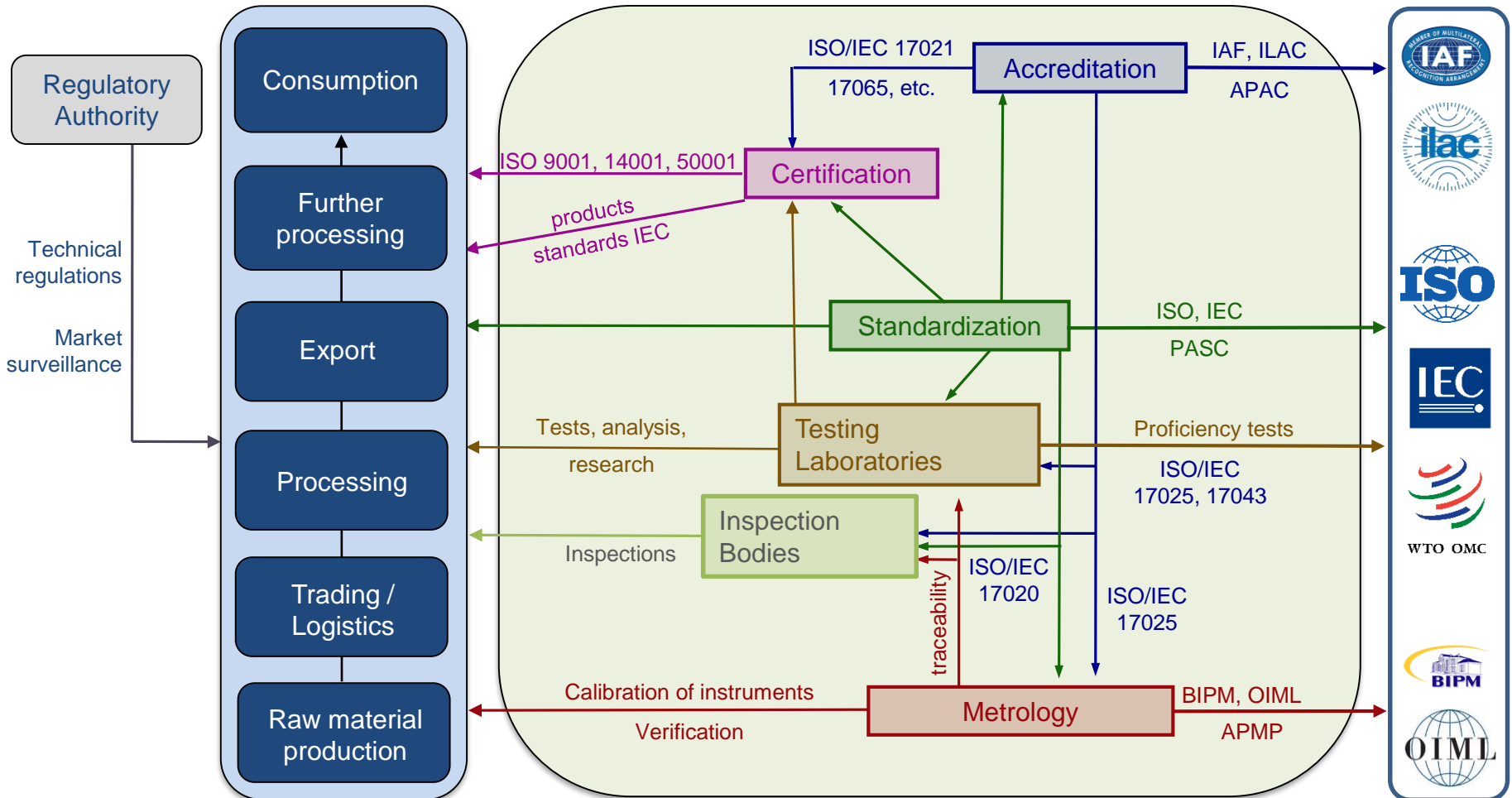
= Recognition of technical competence of laboratories, certification and inspection bodies

Quality Infrastructure and export value chains

Export Value Chains

National Quality Infrastructure

International System



Examples of Quality Infrastructure services for the value chain

Farmers	Traders	Processors	Exporters
Categorizing produce according to standard	Verification of scales (legal metrology)	Quality check (internal or external lab with calibrated equipment)	Require compliance with (international) standards
Testing of soil and produce (testing laboratory)	Definition and verification of product specifications and standards	Certification of quality management processes and / or of the product according to standards	Sample checks for compliance with requirements (accredited testing laboratory / certification)

Two main applications of Quality Infrastructure

State regulated area

Enforcement of technical regulations to assure health and safety:

- Conformity assessment
- Market surveillance
- Legal metrology

Market driven area

Collaboration and consultancy for national industry:

- Quality improvement
- Increased productivity
- Innovation



Both areas are important to strengthen competitiveness and export opportunities

Advantages of a national Quality Infrastructure

Quality infrastructure is crucial for export competitiveness:

- 'Common language' for potential trading partners
- Third party assessment of compliance with quality requirements
- Commitment to quality
- More important the more complex the product, process or system

Advantages of a national Quality Infrastructure

A functioning Quality Infrastructure results in:

- Increased access and reduced costs for local industry to quality assurance services
- Reduced technical barriers to trade
- Facilitated access to markets and supply chains globally
- Potential for innovation in national industry

Quality Infrastructure institutions in Cambodia

National QI



- Standards
- Metrology
- Testing
- Certification
- Accreditation





Thank you very much for your attention!