

# OIML SEMINAR ON METROLOGY MANAGEMENT SYSTEM

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MINISTRY OF DOMESTIC TRADE, CO-OPERATIVES  
AND CONSUMERISM  
MALAYSIA**

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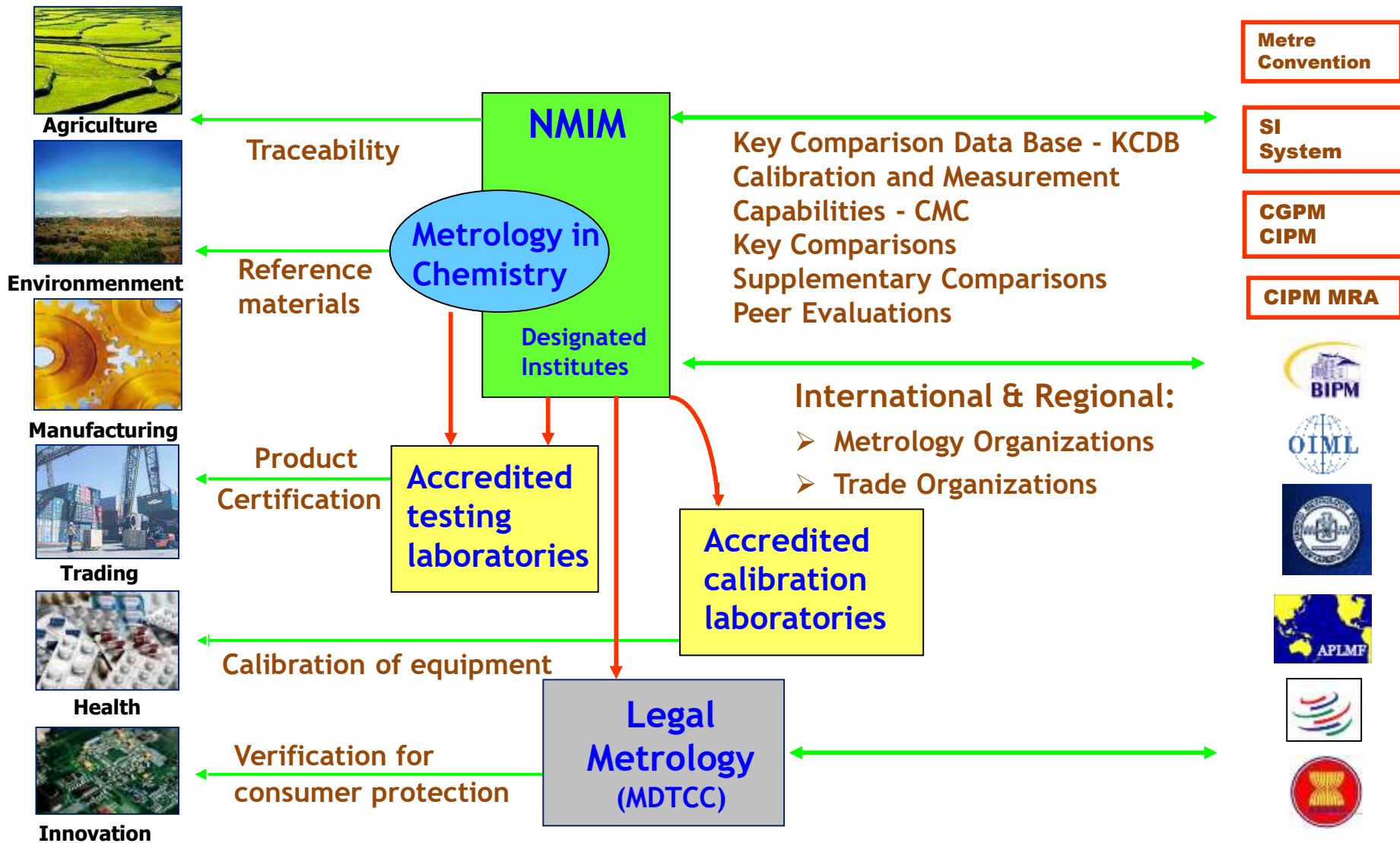


**LEGAL METROLOGY MANAGEMENT SYSTEMS IN MALAYSIA**

## National Value chains

## National Quality Infrastructure

## International system



# Metrology System in Malaysia

# 1) Questions related to the Central Metrology Authority



*Which authority was given the task to be the Central Metrology Authority?*

There is no Central Metrology Authority in Malaysia, however we have the National Metrology Institute of Malaysia (NMIM) who is responsible to keep primary / reference standards and provide traceability through out Malaysia



*Is it responsible for all laws resp. by-laws dealing with metrology?*

No. NMIM is only responsible in providing traceability to the enforcement authorities where the enforcement authorities are the responsible agencies in enforcing the laws of their respective fields.



*Is it responsible for the supervision/monitoring of institutes or bodies?*

No. However if NMIM is appointed as the Custodian / Competence Authority, then NMIM will be responsible in supervision and monitoring tasks.

# 1) Questions related to the Central Metrology Authority

*Is it a member of a regional metrology organization resp. regional legal metrology organization?*

Yes. NMIM is a full member of APLMF and she is a Corresponding Member of OIML

*Is it a member of the Metre Convention and the OIML?*

Yes, since 2001

*Is there any advisory board for the Central Metrology Authority?*

*(If yes, how many people from which stakeholder groups are taking part?)*

Yes, known as National Measurement Council

*Stakeholders are from*

oMinistry of Science, Technology and Innovation (MOSTI)

oMinistry of International Trade and Industry (MITI)

oMinistry of Domestic Trade, Co-operatives and Consumerism (MDTCC)

oMinister of Energy, Green Technology & Water (KeTTHA)

oSTANDARDS MALAYSIA

oSIRIM Berhad

oMalaysian Institute of Chemistry (Institut Kimia)

## 2) Questions related to legal documents



*Is there one law or are there several lawing with metrology?*

Several laws such as MDTCC is responsible for Weight and Measures Act, Road Transport Department is responsible for Road Transport Act 1987, Chemistry Department is responsible for Chemical Act etc



*Is there one by-law or are there several by-laws dealing with metrology?*

There are several authorities by-law dealing with metrology in Malaysia



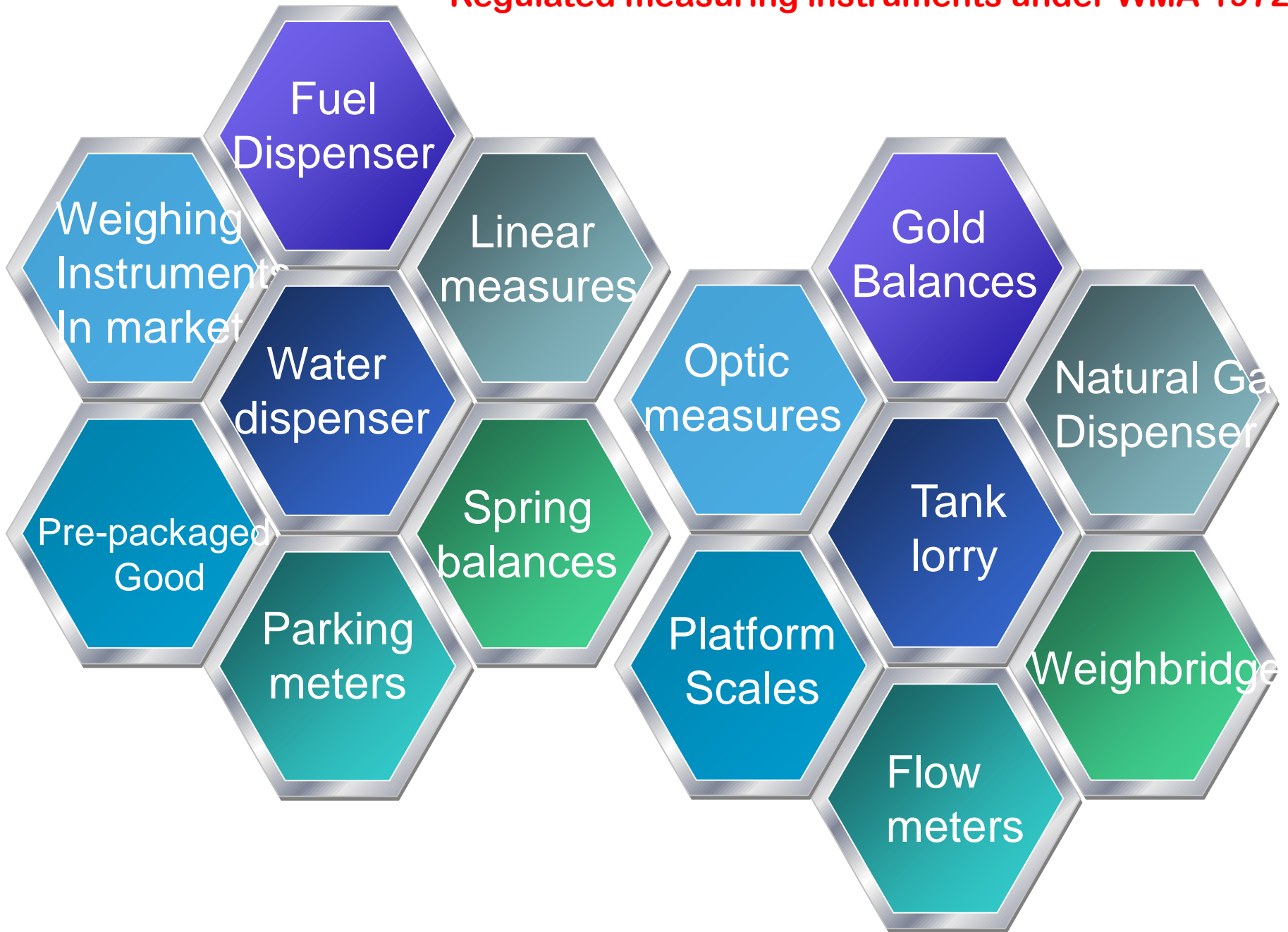
*Is there a list of regulated measuring instruments?*

*(If yes, which measuring instruments are covered?)*

Yes, there are lists of regulated measuring instruments stipulated in various Acts.

List of regulated measuring instruments under Weights and Measures Acts 1972 are as follows :

## Regulated measuring instruments under WMA 1972

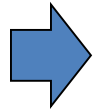


## 2) Questions related to legal documents



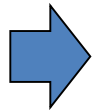
*Is there a list of regulated measurements?  
(If yes, which measurements are covered?)*

Yes. All measurements which are enforced by the authorities are the regulated measurements which shall be traceable to NMIM



*Are prepackages regulated?  
(If yes, which authorities are responsible for?)*

Yes. It is partially regulated under Trade Description Act 2011 but not under the Weights and Measures Act 1972.  
It is under the purview of MDTCC



*Is there any legal document related to legal units?*

Yes. It is described under the National Measurement System Act 2007 (Act 675)



### 3) Questions related to a national legal metrology policy

 *Is there a written national legal metrology policy?*

*(If yes, what is covered by this policy? Is it valid for a certain time period?)*

Yes. It is written under respective enforcement authorities laws.

 *Who is responsible for the development of the national legal metrology policy?*

Respective Ministries are responsible for their scope of work.

 *Which interested parties took part in the development?*

- ◇ Legal Division
- ◇ Strategic Planning and Policy Division
- ◇ Enforcement Division
- ◇ Domestic Trade Division

## 4) Questions related to National Metrology Institutes

 *Is there a National Legal Metrology Institute?*

*Or is the National Metrology Institute responsible for Legal Metrology, too?*

There is no specific Legal Metrology Institute in Malaysia.

However appointed department under respective ministry is responsible for legal metrology tasks.

 *Or is there another institution responsible for Legal Metrology?*

Yes.

Malaysia Institute of Nuclear Technology (MINT) is responsible for ionizing radiation related measurements and she is also a Designated Institute (DI) in this field, and a few others like Puspakom Sdn Bhd, Department of Environment etc

## 4) Questions related to National Metrology Institutes

 *What are the tasks of the responsible institute resp. institution in relation to legal metrology?*

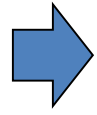
Their tasks includes maintaining the reference and working standards, enforcement and all related tasks stipulated in their respective laws

 *Are there any Designated Institutes dealing with Legal Metrology?*

Yes

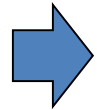
Malaysia Institute of Nuclear Technology (MINT) is responsible for ionizing radiation related measurements and she is also a Designated Institute (DI) in this field

## 5) Questions related to all kinds of bodies



*Which kinds of legal metrology bodies do exist in your country?*

There are government department who are the legal metrology authority, government owned company who is appointed by certain laws to enforce certain field of measurement (Puspakom) and privately owned company who is appointed by MDTCC (MCM) to carry out verification services on her behalf



*What are their specific tasks?*

Puspakom : smoke meter, tachometer, tinted glasses

MCM : All regulated measuring instruments listed in WMA 1972



*How are they financed?*

*(Are they private enterprises?)*

Puspakom : Government Linked Company

MCM : Private Owned Company



*Is there an obligation to demonstrate competence?*

Yes, as determined by respective authorities

## 5) Questions related to all kinds of bodies



*Is there any supervision resp. monitoring of such bodies?*

Yes



*Are standardization bodies (or at least one) taking part in the legal metrology system of your country?*

No



*Are accreditation bodies (or at least one) taking part in the legal metrology system of your country?*

No

## 6) Questions related to some general topics



*How many people are working for the legal metrology management system in your country (CMA, LMA, NMI, NLMI, bodies, etc.)?*

- 2,669 Enforcement Officers attached to MDTCC Offices
- 182 Verification Officers attached to Verification Offices
- 40 Officers attached to Custodian Office



*Are fees for legal metrology services fixed by the state?*

No. All legal metrology services are controlled by Federal Government and therefore fees are fixed by respective responsible ministries



*How does your Legal Metrology Management System deal with measuring instruments coming from other countries?*

They must comply with National Measurement System Act 2007 and respective ministries requirements who are regulating that particular measuring instruments

National  
Metrology  
Institute of  
Malaysia  
(NMIM)



- Custodian
- 40 Officers

NMIM

# Organization to Implement LM

Metrology Corp. (M)  
Sdn Bhd



MDTCC

- Regulator
- 2,669  
Enforcement  
Officers
- 72 branches

MDTCC

**METROLOGY**  
CORPORATION MALAYSIA  
SDN. BHD.  
499924-K

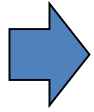
- 182 Verification Officers
- 32 branches

## 6) Questions related to some general topics



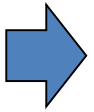
*Do you see any need for improvements of your Legal Metrology Management System?*

Not now



*Would you like to have any support or further information exchange with colleagues concerning specific topics?*

Yes




*What would you like to discuss with other participants during the group discussions?*

The effective ways how to manage legal metrology systems in Malaysia based on our capabilities and requirements.




# Raising awareness of metrology


 *How important do you think of raising awareness of metrology?*  
Very important

 *Which way do you think is most efficient to do so? Please list top 3*

- ◇ Education
- ◇ Advertisement
- ◇ Direct engagement with the end users

 *What is your successful story? Please list top 3*

- ◇ Uniform usage of SI units throughout the country
- ◇ Regulated measuring instruments are legally traceable to national measurement standards
- ◇ Ensuring consumer protection and fair trading on daily basis by imposing accurate measurement on commodities and services

 *What do you expect to learn from others? Please list top 3*

- ◇ Effective enforcement
- ◇ Capacity building
- ◇ Good infrastructure in measurement

# Training course or seminar topic mostly needed in near future

 ***What subject do your urgent need for training?*** *Please list top 3*

- ◇ Software verification process
- ◇ Software control mechanism
- ◇ Type approval related issues.

 ***Which seminar topic do you care for the most?*** *Please list top 3*

- ◇ Software verification process
- ◇ Software control mechanism
- ◇ Type approval related issues.

 ***Speak of capacity building, what is the strongest needs of your organization?*** *Please list top 3*

- ◇ Financial Support
- ◇ Training
- ◇ Consultaion

 ***Other request?***

No



谢谢  
Thank You

