

"SMIIC's Efforts in Improving Metrology in the OIC Member Countries"

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2024



Metrology











# ORGANIZATION OF ISLAMIC COOPERATION (OIC)



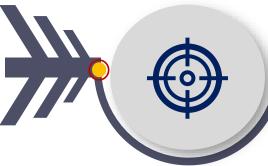
- The second largest inter-governmental organization after the United Nations.
- Established in September 1969.
- 57 Member States spread over four continents.
- Collective voice of the Muslim world and ensuring to safeguard and protect the interests of the Muslim world.





## **MAIN OBJECTIVES OF SMIC**













To <u>provide</u>
<u>technical</u>
<u>assistance</u> to
the Member
States which do
not possess
such bodies.

To <u>establish a</u>
conformity assessment
scheme for the purpose
of expediting exchange of
materials, manufactured
goods and products
among Member States,
beginning with mutual
recognition.













## WHAT IS QUALITY INFRASTRUCTURE?

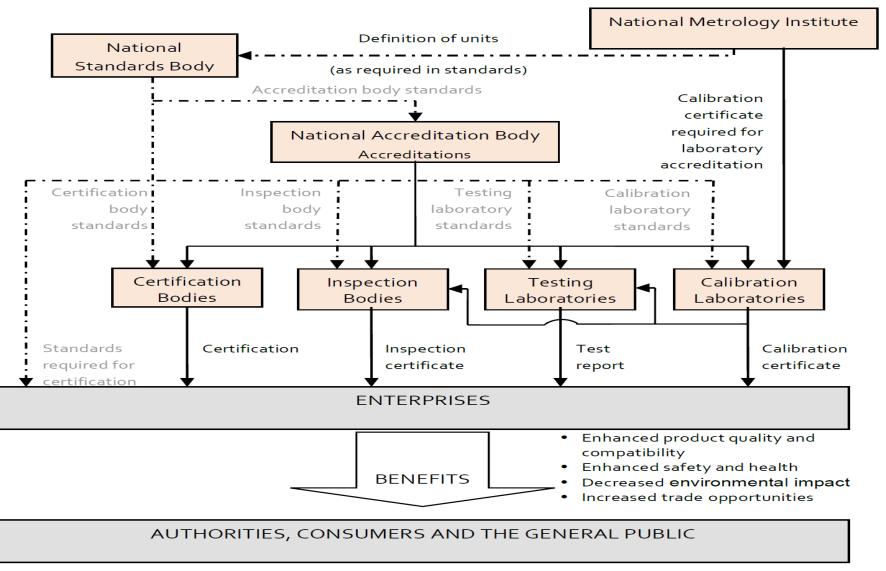
Quality infrastructure refers "to all aspects of standardization, metrology, accreditation and conformity assessment (testing, management systems, inspection, certification) that have a bearing on conformity assessment.

Quality infrastructure is a system of institutions which jointly ensure that products and processes meet **predefined** specifications which are standards.



### **OVERALL QUALITY INFRASTRUCTURE**





Source: World Bank 2007.



### HALAL CONFORMITY ASSESSMENT



Pillars of Conformity Assessment

Standards are the key to any conformity assessment (CA) activity since the pillars of the CA depend on the existence of necessary standards.

#### **Standards**

Applicable standards for all (OIC/SMIIC standards)

#### Certification

Certification body that conforms to OIC/SMIIC 2

"Third party conformity assessment of compliance according to OIC/SMIIC 1 and etc."

### Accreditation

Accreditation body that conforms to OIC/SMIIC 3

"Competent certifiers; impartial and credible assessment according to OIC/SMIIC 2"

### **OIC GLOBAL HALAL QUALITY INFRASTRUCTURE (OHAQ)**



### Designated Structure (IFHAB)

#### **Mutual Recognition**

MRA & Peer evaluation in accordance with OIC/SMIIC standards

Halal Conformity Assessment Structure According to OIC/SMIIC Standards

Accreditation

Competent (Authorized Halal Accreditation halal **Bodies**) certifiers

**Conformity Assessment** 

(Accredited Halal Conformity Assessment Bodies (CABs))

**Products & Services** 

(Producers, Retailers, Distributors and Service Providers)

standards

OIC/SMIIC standards

Audits and certification of products & services

Conformance to the halal requirements in production

Guidelines for Halal Accreditation Bodies

**Accrediting Halal** 

SMIIC/CCA

SMIIC/CCA

**OIC/SMIIC 3:2019** 

CABs.

Guidelines for Halal

CABs performing

halal certification activities.

**OIC/SMIIC 2:2019** 

Other OIC/SMIIC standards

Guidelines for Producers, Manufacturers and Service Providers to

ensure halal conformance. SMIIC TCs

**OIC/SMIIC 1:2019** 

**OIC/SMIIC 4:2018** 

**OIC/SMIIC 9:2019** 

Other OIC/SMIIC standards

12



organizations;



#### **DESIGNATED STRUCTURE**



- of OIC/SMIIC standards;
   Perform peer-assessments of ABs and regional
- Coordinate with legislators to approve the results of conformity assessments.

#### **OIC Member States**

Issue notification based on registration and accreditation

#### **Accreditation Bodies**

Perform accreditation assessment according requirements of OIC/SMIIC standards

#### Conformity Assessment Bodies

Apply for notification and accreditation from Member States wishing to operate in their markets.

## ELEMENTS OF OIC GLOBAL HALAL QUALITY INFRASTRUCTURE





### METROLOGY IN OIC GLOBAL HALAL QUALITY INFRASTRUCTURE

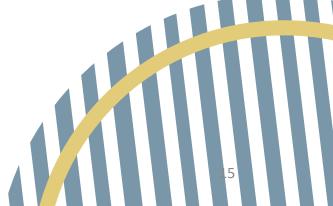


- Metrology is one of the key parts of the OIC Global Halal Quality Infrastructure that supports global trade of halal products and services. Metrology infrastructure, harmonization and implementation of measurement standards among the OIC Member States play a critical role for improving quality and reliability of halal products and eliminating technical barriers to trade and thus developing the trade among themselves and other countries.
- Metrology activities in OIC Global Halal Quality Infrastructure will provide the technical basis for the halal certification programs throughout the OIC Member States that aims at qualifying the halal products of OIC Member States within and for access to new markets.



-MC members are national metrology institutes of the Member States and Observers of SMIIC.

-MC shall make cooperation in all types of metrology activities and policies among SMIIC Member States.







### SMIIC Metrology Council Training Activities

- The MC has its own website connected to the SMIIC Website
- https://www.smiic.org/en
- The MC has a 3 yearly working plan.

The SMIIC MC Work Plan 2021-2023 which covers the main activities planned to be realized by the SMIIC MC Member States for three years and is coordinated by the MC Chairmanship.





#### SMIIC MC Work Plan for 2021 - 2023

The SMIIC MC, briefly, intends to harmonize and facilitate the activities in metrology services in Member Countries based on international arrangements and regional metrology organization membership requirements; by organizing trainings and relevant metrological activities. The SMIIC MC intends to contribute in enhancing the technical and metrological capabilities of Member States to contribute to and facilitate removal of technical trade barriers. In line with these objectives, the SMIIC MC Work Plan 2021-2023 is prepared by the Task Force Group which was constituted during the 8th SMIIC MC meeting.

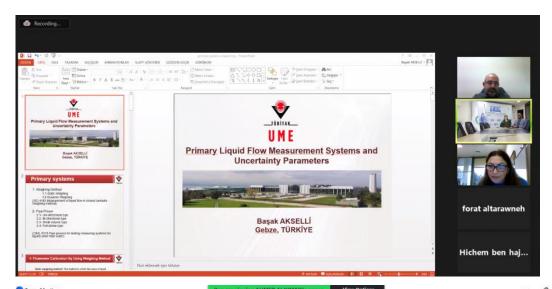
The SMIIC MC Work Plan 2021-2023 covers the main activities planned to be realized by the SMIIC MC Member States for three years and is supposed to be coordinated by the MC Chairmanship. Due to the COVID-19 pandemic, some activities i.e. training, capacity building, consultancy, etc. will be organized online and the future of the other activities will be decided mutually by the involvement of the member NMIs. This plan may be subject to intermediate revision at the SMIIC MC meetings in case it is requested by the members. The main activities are as follows.

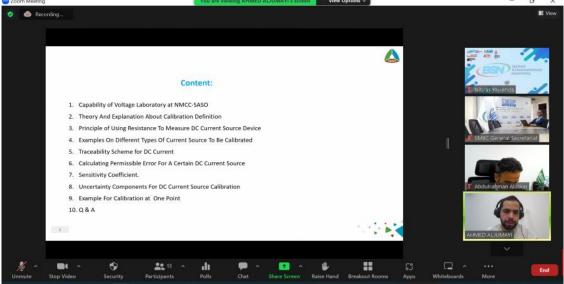






- The Metrology Council completed its Metrology Council Annual Working Plan
- The MC 2021-2023 Working Plan includes training and capacity building trainings on:
- a) Scientific Metrology Training (11 trainings)
- b) Legal Metrology Training (3 trainings)
- c) Training Related to Halal Activities (7 trainings)
- d) Calibration Trainings (8 trainings)
- e) Proficiency Testing Training (3 trainings)
- f) Joint Work, Consultancy, R&D and Workshops (11 programs)









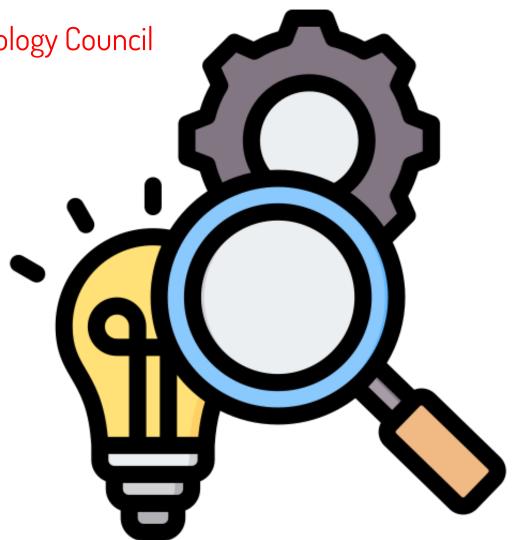
Projects under developement by the SMIIC Metrology Council

#### SMIIC Research & Development project

 During the 10th SMIIC MC Meeting the Council decided to conduct Research & Development projects for capacity building of the MC Members,

There will be three types of projects:

- i. scientific research projects
- ii. development of measurement standards projects
- iii. establishment of legal metrology infrastructure (documentation)







# SMIIC MC Inter-laboratory Comparisons (ILC)

 The SMIIC Metrology Council has initiated the SMIIC MC Inter-laboratory Comparisons (ILC) in accordance with Resolution 19/2022 from the 11<sup>th</sup> SMIIC MC meeting convened on October 28-29, 2022, in Almaty, Kazakhstan.







### SMIIC MC Guide in Medical Metrology

 The SMIIC Metrology Council is working to develop a guide on **Medical Metrology** Standard/Guide for Legal Metrology Purposes as per Metrology Council Resolution 06/2023







## **Annual Meetings:**

SMIIC MC conducts Annual Meetings





## **CONCLUSION**



 Metrology is essential for establishing standards and plays a crucial role in the work of SMIIC.

SMIIC Metrology Council is the <u>common platform</u> set for <u>National</u>
 Metrology Institutes of OIC Countries.

 SMIIC Metrology Council is resoloved to developed the National Metrology Infrustructure for the Member States

## Thank you for your kind attention

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