



**AFRIMETS**  
Intra-Africa Metrology System  
Système Intra-Africain de Métrologie



# **SADCMET**

**Presented by:**

**Mr Donald Masuku**

**SADCMET Regional Coordinator**

**12<sup>th</sup> July 2019**

## Presentation Overview

- Background and Structure
- Activities undertaken during the reporting period
- Capacity building/Training
- Measurement Comparisons
- CMCs Submission Status
- Future Plans

## Background and Members

- SADC MET is one of the SADC TBT structures which comprises NMIs of the 16 SADC member states. Comoros joined SADC last year as the 16<sup>th</sup> member state
- South Africa is a full member of the BIPM.
- Seven SADC- NMIs are Associates of the CGPM
  - Mauritius, Seychelles, Zambia and Zimbabwe joined in 2010-2011
  - Botswana and Namibia joined in 2012
  - Tanzania joined on 1 Jan 2018 and all countries have signed the CIPM MRA.
- One more country (DRC) is in the process to join.

## SADCMET Structure

<b>Position</b>	<b>Country</b>	<b>Name</b>
<b>Chair</b>	Zambia	Mr Fredrick Hamutunda
<b>Vice-Chair</b>	Swaziland	Mrs Cebisile Bhembe
<b>Past Chair</b>	Botswana	Mr Shadrack Kajane
<b>SADCMET Secretariat</b>	South Africa	Mr Donald Masuku
<b>TC 1 – AFRIMETS and BIPM Issues</b>	Botswana	Mr Modiriemang Kame
<b>TC 2 – Metrology Education &amp; Training</b>	Lesotho	Ms Qenehelo Lenka
<b>TC 3 – Metrology Infrastructure Development</b>	DR Congo	Mr Florian Ngindu
<b>TC 4 – Metrology Legislation Harmonization</b>	Namibia	Mr Simasiku Matali
<b>TC 5– SME Development</b>	Mozambique	Mr David Magaia

## **SRMO Activities undertaken during the reporting period**

- SADC MET held its annual General Assembly during the SADC TBT meetings held in Windhoek, Namibia in March 2019.
  - Discussions focussed on implementation of the SADC MET 5 Year Strategic Plan and Five Year ILC Plan
- SADC MET participated in the Revised SI and Industry 4.0 conference which was hosted by NMISA in Pretoria, South Africa
- SADC MET participated in the APMP's Developing Economies Committee meetings held in Philippines in June 2019.

## SRMO Activities undertaken during the reporting period

- SADC MET runs the SADC Water PT scheme for the chemistry and micro-biology analysis of water sponsored by PTB.
- More than 100 laboratories from most of the AFRIMETS countries participate in the Water PT scheme.
- An evaluation workshop follows each PT round and the 2018 Water PT Evaluation workshop (15<sup>th</sup> PT round for chemical analysis and 10<sup>th</sup> PT round for Microbiology) was held in Harare, Zimbabwe in Dec 2018

## Capacity Building and Training activities

- SADC MET hosted ILC workshops in Mass, Volume, Temp and Dimension which were held in Zambia, Tanzania, Botswana and Zimbabwe respectively.
- Workshops aimed at training participants on how to participate in ILC, how to pilot ILCs, preparation of protocols, ILC reports

## Measurement Comparisons

- SADC MET NMIs especially the 7 Associates of the CGPM are participating in the AFRIMETS key and supplementary comparisons in the fields of mass and temperature in preparation for the project of submission of CMCs in the KCDB.
- Implementation of ILC Plan (Volume, Temperature, Mass and Dimension)
  - ILCs Objectives:
    - To support accreditation for SADC NMIs
    - To support Associates of the CGPM wishing to submit CMCs to BIPM KCDB
    - Acquired artefacts through funding assistance from our cooperating partners, PTB



# Progress of ILC Project

Field	Dates of ILC Workshops	Place	# of Participants	Artefacts	Pilot Lab and ILC Status
Volume	12 to 14 Nov 2018	Dar –es-salaam, TZ	11	Pipettes & Glassware	NSI, ILC circulation started March 2019
Mass	3 to 5 Dec 2018	Lusaka, ZA	12	M1 & F1	NMISA, SIRDC-NMI, F1 ILC circulation started in June
Temperature	4 to 6 Feb 2019	Gaborone, Botswana	13	Thermocouple, Installation	SIRDC-NMI, ZMA, ILC started in June
Length	11 to 13 Feb 2019	Harare, Zimbabwe	11	DTI, Tapes, Vernier and micrometer	SIRDC-NMI, BOBS, ILC yet to start

## CMC Submission Status

- Following the PTB supported CMC submission project for the 6 Associate Members to CGPM, the following NMIs submitted their QS to AFRIMETS TC-QS and successfully submitted CMCs:
  - NSI – Namibia (Mass)- Approved
  - SIRDC – NMI Zimbabwe (Mass and Temp)- Approved
  - BOBS – Botswana (Temp)- Approved
  - ZABS – Zambia (Temp)- Approved
  - MSB – Mauritius (Mass)- Not yet approved
  - SBS- Seychelles (Mass) – Not yet approved
- Member states working on CMC submission in other parameters

## Future Plans

- ISO 17025:2017 Workshops
  - SADC MET is planning to host ISO 17025 Workshop to be held from 22-24 July 2019 at Massa Square hotel in Gaborone, Botswana
  - Supported by PTB, Germany as part of the implementation of the SADC MET Five-Year Strategic Plan (2017 – 2022)
  - The workshop will offer a bridging course and training on the differences between the old standard and the requirements of the new ISO 17025:2017 standard
- Calibration of NMS of SADC NMIs
  - NMS of SADC NMIs covering 4 fields will be calibrated at NMISA for traceability and to support accreditation of NMIs. Supported by PTB, the project will run until Nov 2019

## Future Plans

- NMISA is in the process of establishing a Metrology Training Centre for Africa which will offer metrology training and attachments in a number of fields including:
  - Mass/Volume,
  - Temperature,
  - EM,
  - Pressure and
  - Chemistry.



**Thank you**

**Merci**

