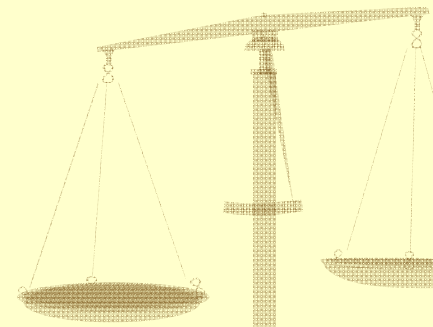


# *AFRIMETS Updates*

*7<sup>th</sup> General Assembly  
1-5 July 2013, Lusaka - Zambia*

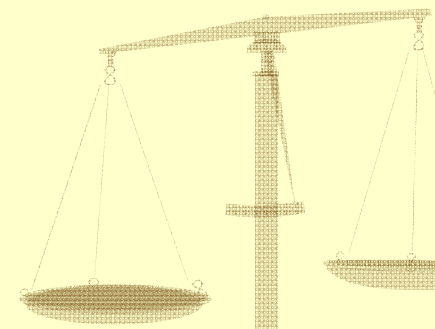
Mr Mourad BEN HASSINE  
AFRIMETS Chairperson



## □ An Overview of AFRIMETS

- The Members
- The vision and mission of AFRIMETS
- Technical activities

## □ Updates of the main events and activities

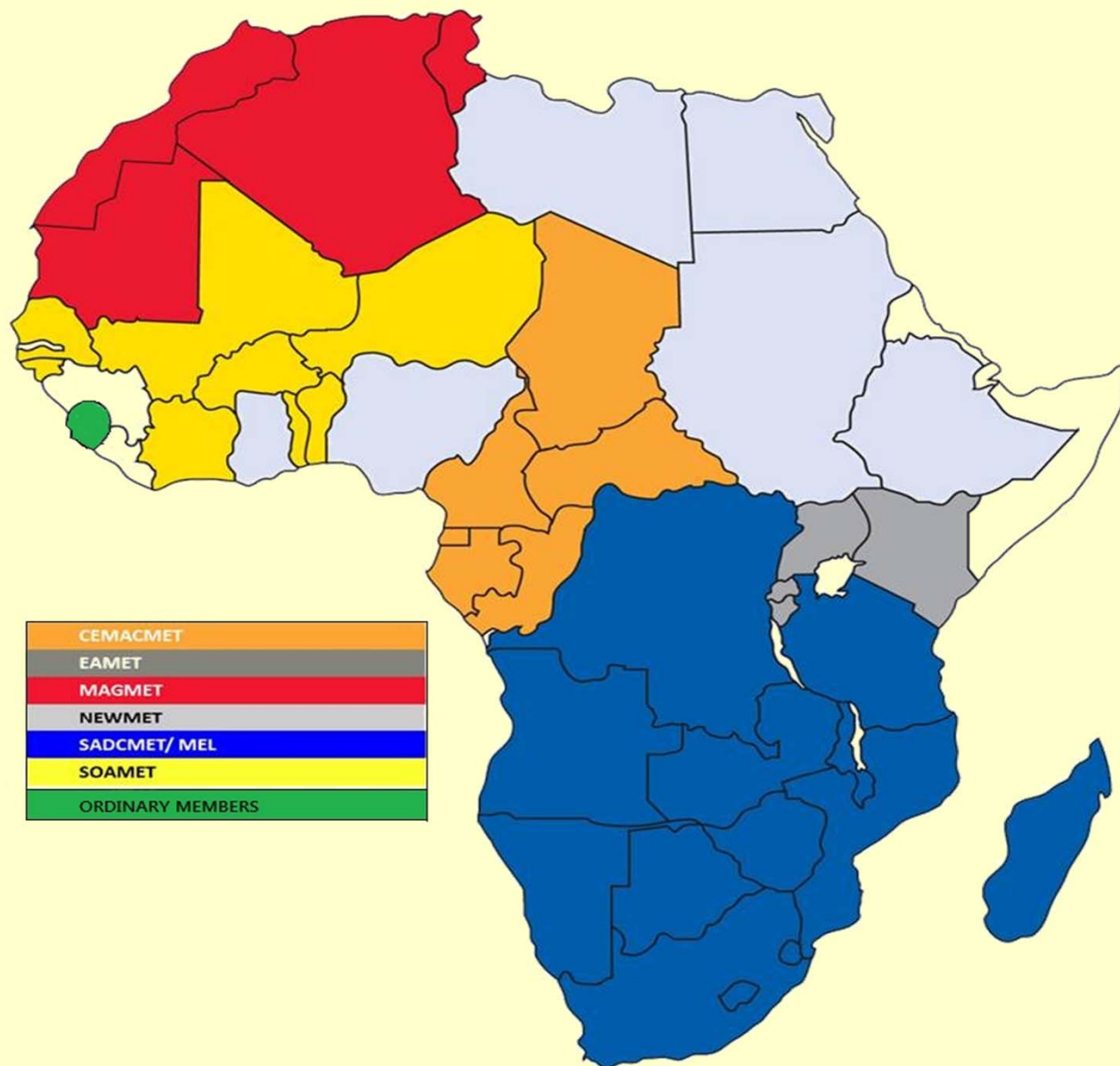




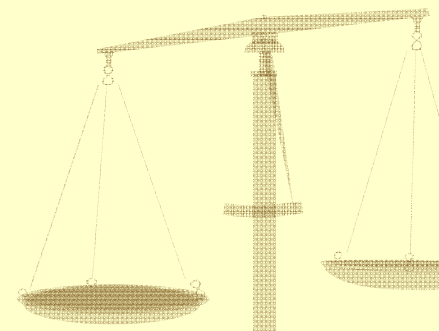
# AFRIMETS

Intra-Africa Metrology System  
Système Intra-Africain de Métrologie

## The members (2013)

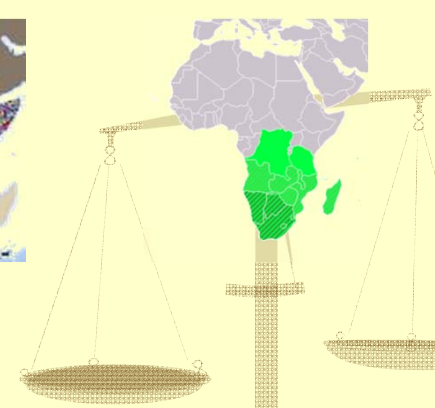


CEMACMET
EAMET
MAGMET
NEWMET
SADC MET/ MEL
SOAMET
ORDINARY MEMBERS



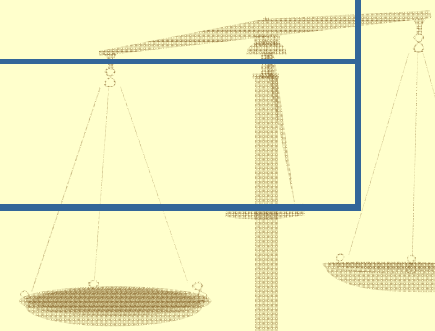
# The AFRIMETS members (2013)

CEMACMET (6)	Cameroon, Central African Republic, Chad, Equatorial-Guinea, Gabon, Republic of the Congo
EAMET (4)	Kenya, Uganda, Rwanda, Burundi
MAGMET (4)	Algeria, Morocco, Tunisia, Mauritania
SADCMET-MEL (15)	Angola, Botswana, DRC, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe and Seychelles
SOAMET (8)	Benin, Burkina-Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, Togo
NEWMET (6)	Egypt, Ethiopia, Ghana, Nigeria, <u>Sudan</u> , <b>Libya</b>



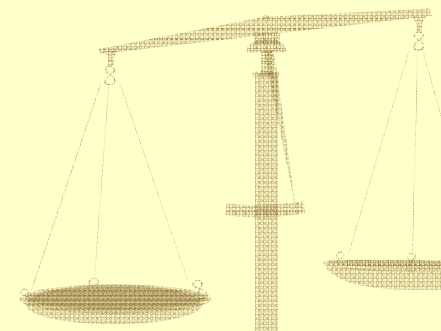
# The members (2013)

Associate Members (7)	<ul style="list-style-type: none"> <li>■ LNE, France</li> <li>■ PTB, Germany</li> <li>■ <i>NIRPS (National Institute of Radiation Protection and Research (Nigeria)</i></li> <li>■ <i>GRPI (Ghana Radiation Protection Institute)</i></li> <li>■ <i>TAEC (Tanzania Atomic Energy Commission)</i></li> <li>■ <i>Madagascar-INSTN</i></li> <li>■ <i>IAEA</i></li> <li>■ <u><i>Sudanese nuclear agency (requested)</i></u></li> <li>■ <u><i>Arab Gulf countries invited to participate</i></u></li> </ul>
Observers (4)	<ul style="list-style-type: none"> <li>■ EURAMET</li> <li>■ CAFMET (Comité Africain de Métrologie)</li> <li>■ AFM (Arab Federation for Metrology)</li> <li>■ AFSEC (African Electrotechnical Standardization Commission)</li> </ul>
Ordinary Members (1)	<ul style="list-style-type: none"> <li>■ <b>Gambia (expressed its interest)</b></li> <li>■ Sierra Leone</li> </ul>



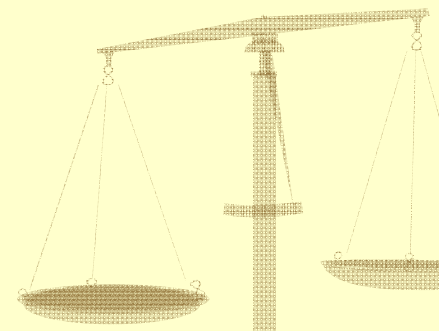
## AFRIMETS Vision

*To provide fit for purpose,  
comparable and internationally  
accepted metrology facilities in Africa*



## AFRIMETS Mission

*To promote metrology and related activities in Africa with the view of facilitating intra-African and international trade and to ensure the safety, health, and consumer and environmental protection of its citizens.*

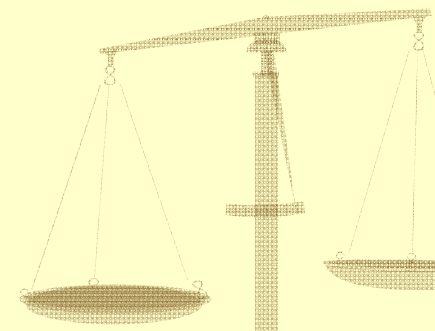




## Objectives

AFRIMETS' overall objectives are to:

- a) Create awareness of metrology in Africa at all levels of society and government;
- b) Assist in the development and/or strengthening of the metrology infrastructure in each country and/or SRMO - on the continent;
- c) Contribute to the development of a conformity assessment and regulatory infrastructure as required and promote equity in trade;
- d) Foster competitiveness and quality in the manufacturing sector in order to promote trade and commerce;
- e) Contribute to the development of the metrological infrastructure required to protect the environment and to promote the general well-being of the population, including its health and safety and the protection of consumers from fraudulent dealings where measurements are used as the basis for the transaction;
- f) Develop a closer collaboration between members;

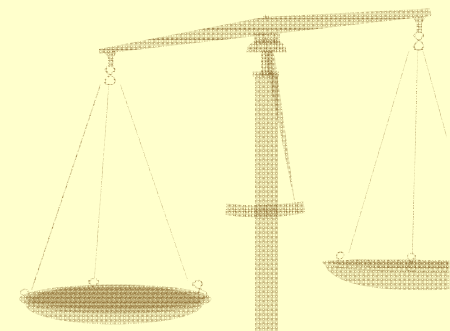




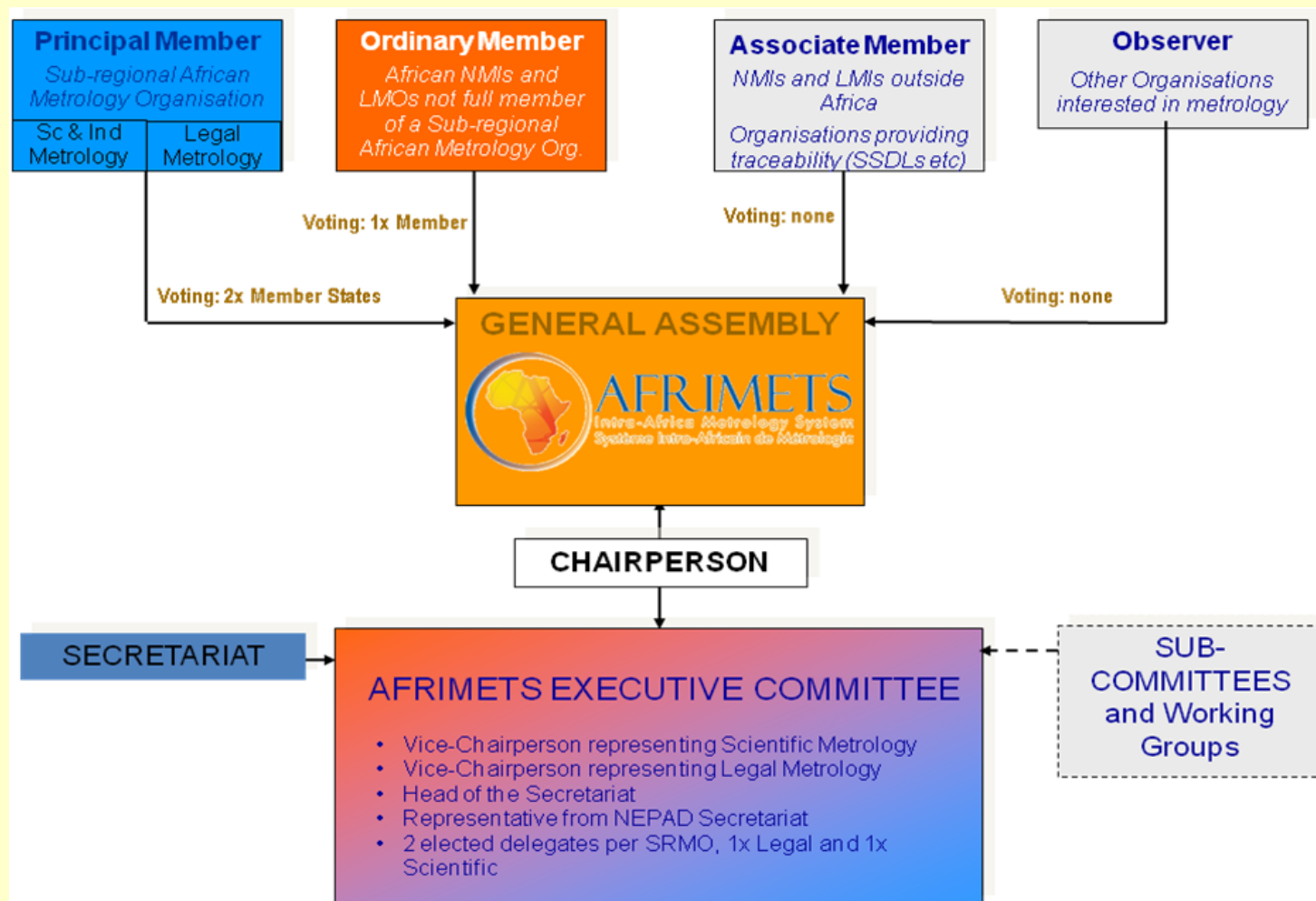
## Objectives (Cont.)

AFRIMETS' overall objectives are to:

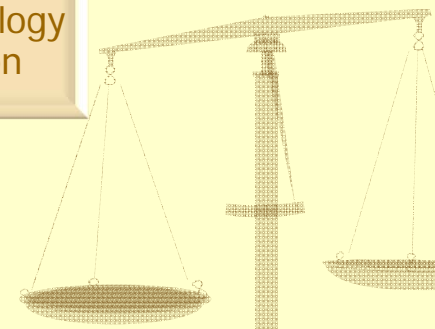
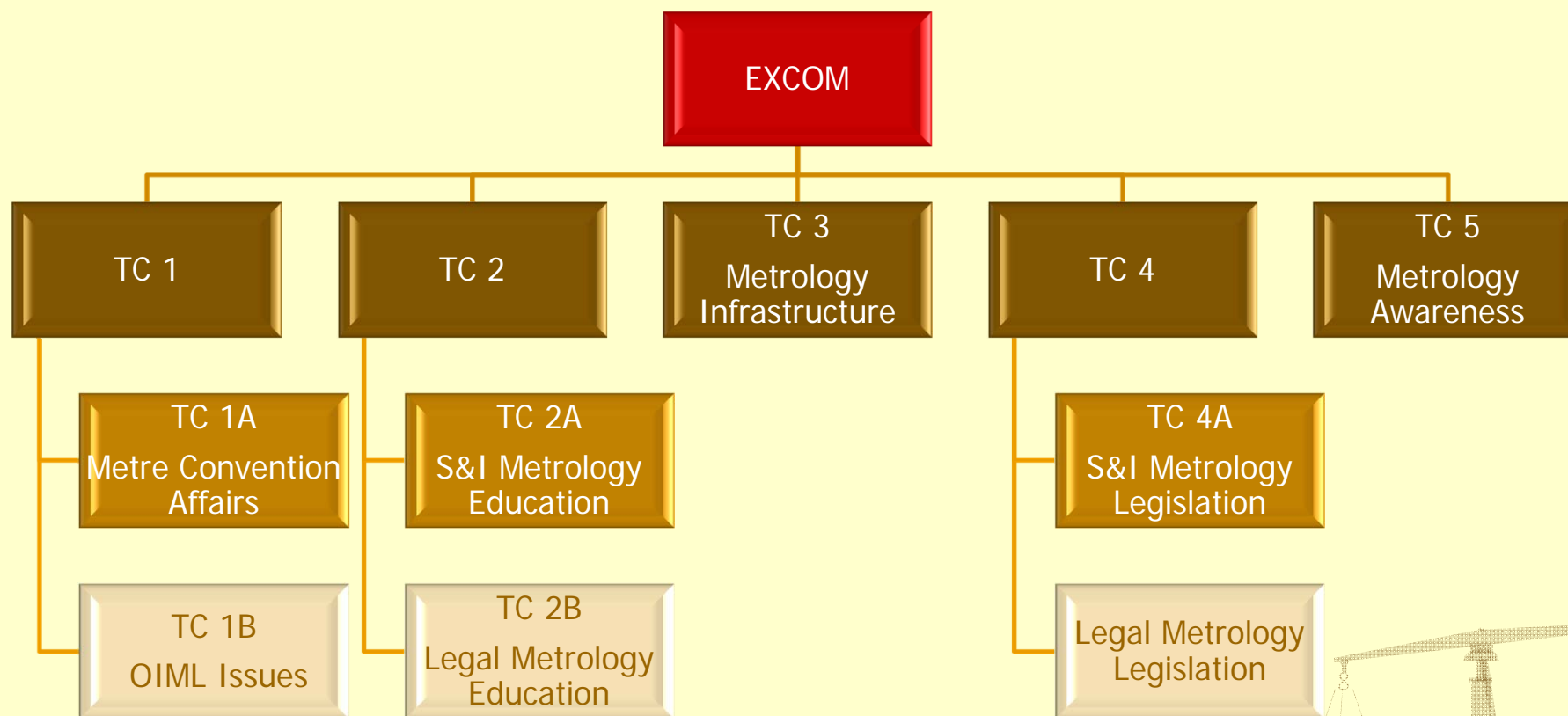
- g) Improve the level of metrology and assist members in gaining international recognition;
- h) Improve the traceability of measurement standards within Africa to international standards as defined in the international system of units (SI) and generally promote the CIPM MRA and the objectives of the Metre Convention;
- i) Encourage measurement traceability in Africa through recognized calibration services;
- j) Promote the adoption of International Organization of Legal Metrology (OIML) technical recommendations or other relevant international standards as technical regulations wherever possible and harmonize technical regulations in Africa in order to minimise technical barriers to trade.



# The structure of AFRIMETS

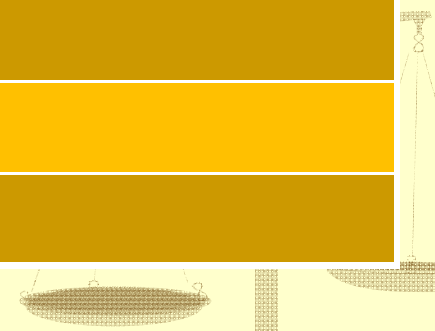


# The Technical committees



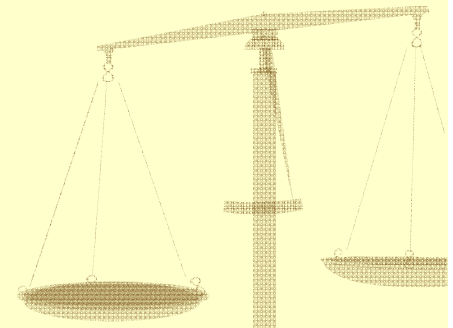
## The TC 1A-Working Groups

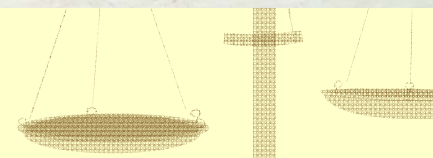
TC-Mass and Related Quantities (TC-M)	Mass
	Flow
	Pressure
	Force, Torque and Hardness
TC-L	Dimensional (Length)
TC-AUV	Acoustics, Ultrasound and Vibration
TC-T	Temperature
TC-TF	Time and Frequency, Fibre Optics
TC-EM	Voltage, Resistance, AC power and energy, Radio Frequency
TC-PR	Photometry and Radiometry
TC-RI	Ionising Radiation



# The TC Working Groups cont.

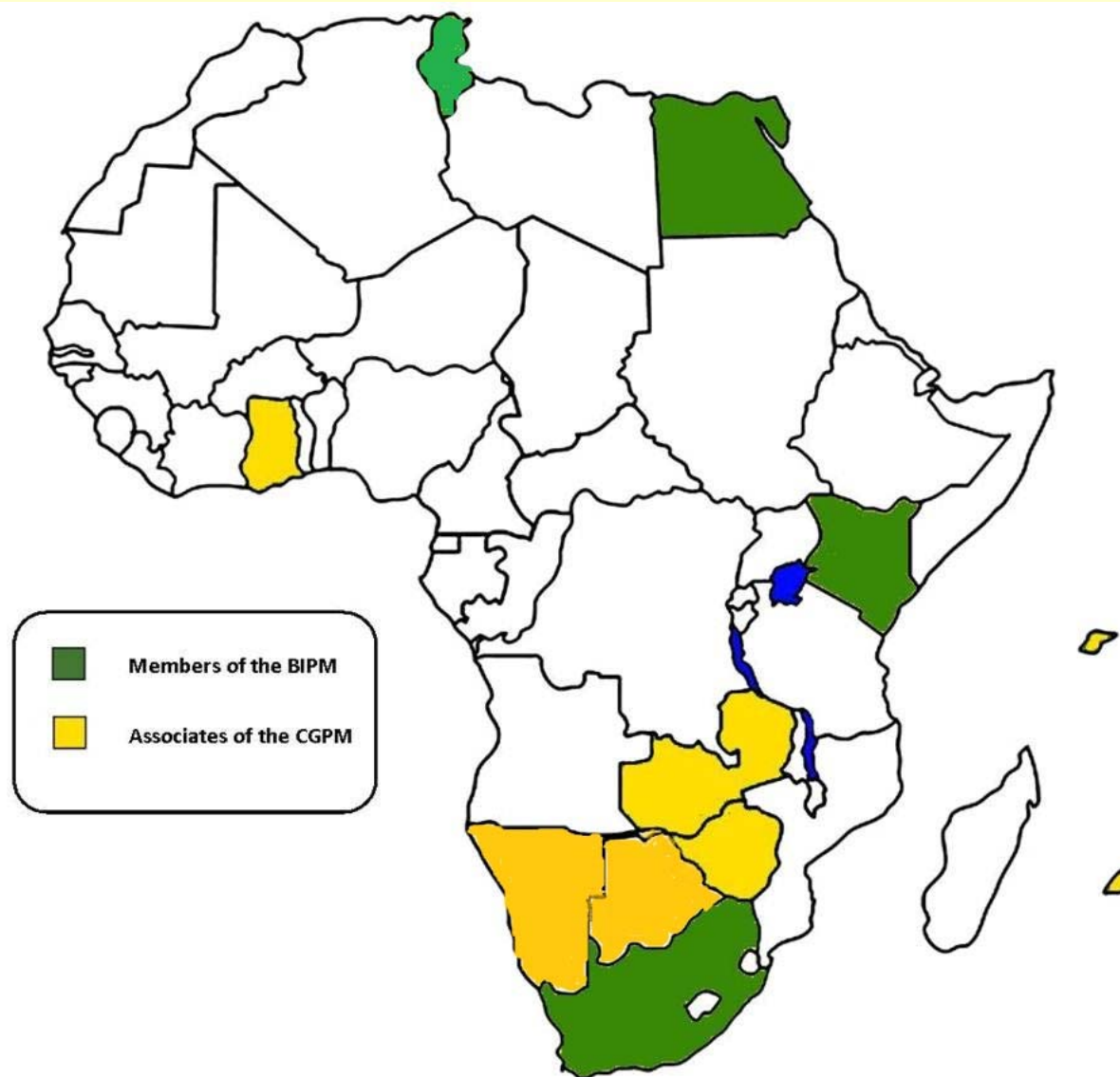
<b>TC-QM</b> <b>Metrology in Chemistry</b>	Organic and Bio Analysis
	Inorganic
	Gas
	Testing Laboratories
<b>TC-QS</b>	Quality Working Group
<b>TC 1B Working Groups</b>	
<b>LMWG</b>	Weights and Measures (Legal Metrology)





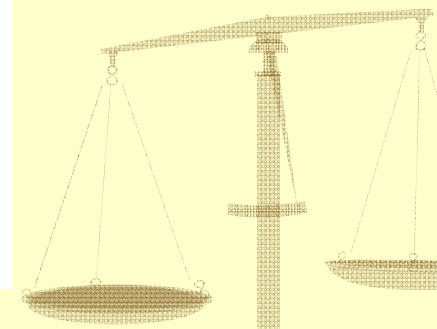


# The members of the BIPM & Associates of the CGPM (2013)



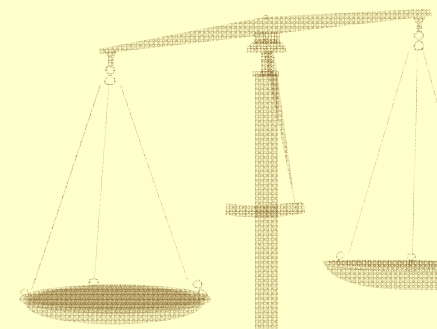
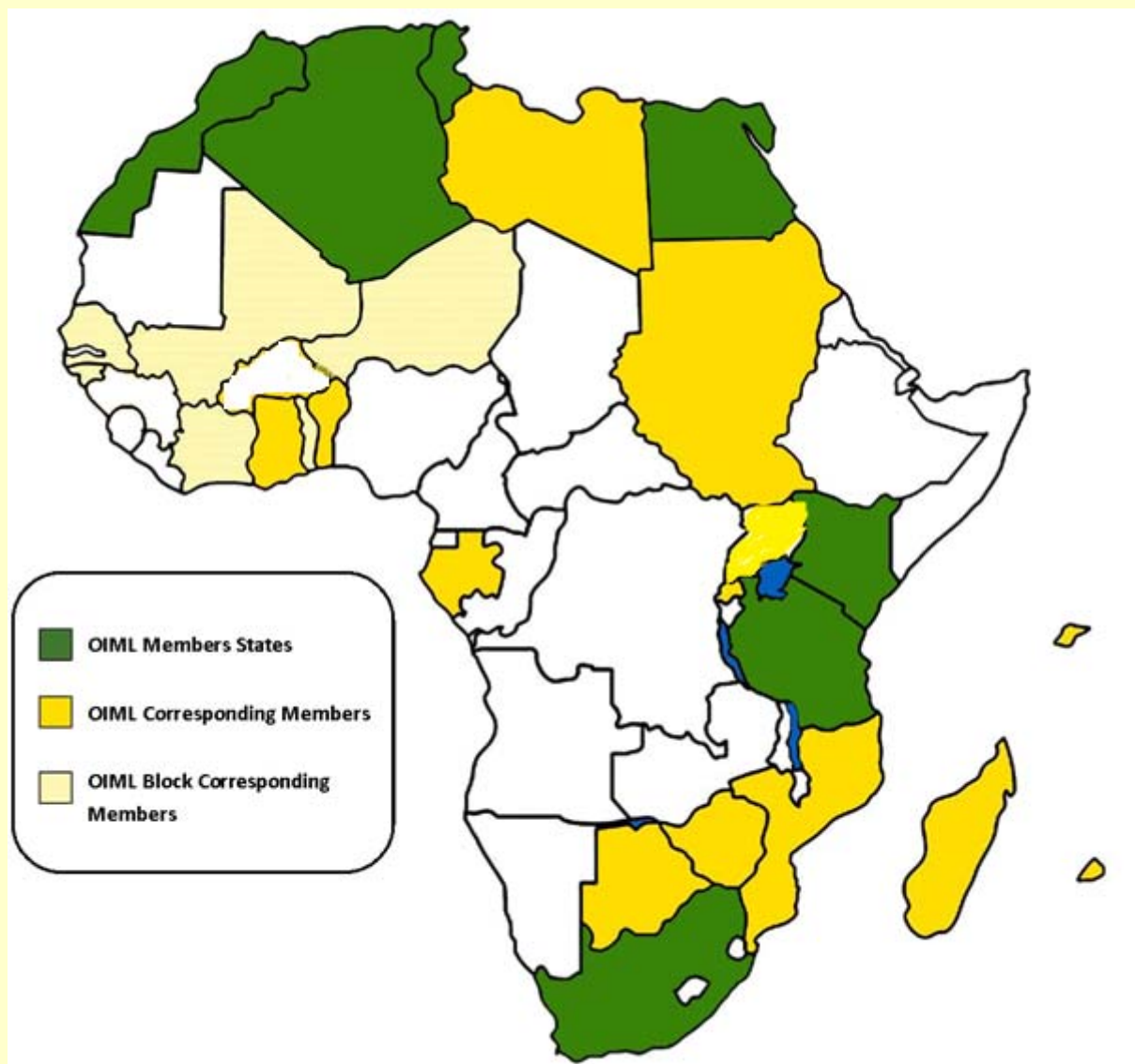
CIPM member :

**Dr Wynand Louw**  
(NMISA, South Africa)





# The members and corresponding members of the OIML (2013)





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

## PAQI MoU



SIGNED [Signature] ON THIS 20<sup>th</sup> DAY OF February 2013

FOR AND ON BEHALF OF ARSO

[Signature] KSEWUMANA, Secretary General

[PLEASE INSERT NAME AND TITLE]

(Being duly authorised)

AS WITNESSES:

1. [Signature]  
2. [Signature]

SIGNED [Signature] ON THIS 20 DAY OF February 2013

FOR AND ON BEHALF OF AFRAC

[Signature] Ronald Juma's Commission

[PLEASE INSERT NAME AND TITLE]

(Being duly authorised)

AS WITNESSES:

1. [Signature]  
2. [Signature]

SIGNED [Signature] ON 20<sup>th</sup> THIS DAY OF February, 2013

FOR AND ON BEHALF OF AFRIMETS

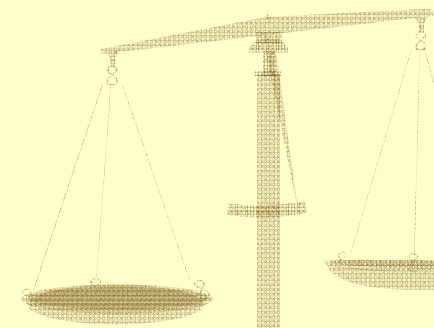
Mr. Joel M. Kioko

[PLEASE INSERT NAME AND TITLE]

(Being duly authorised)

AS WITNESSES:

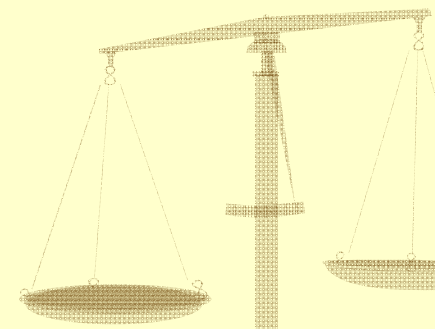
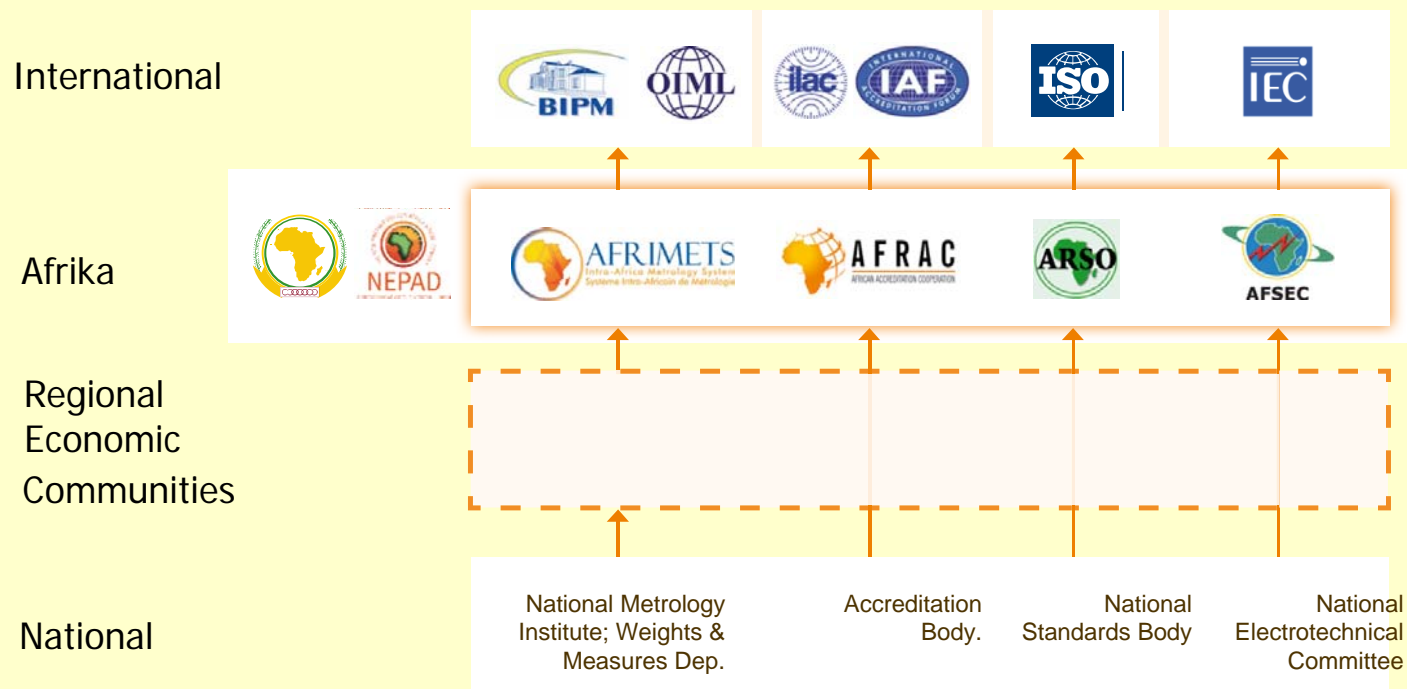
1. [Signature]  
2. [Signature]



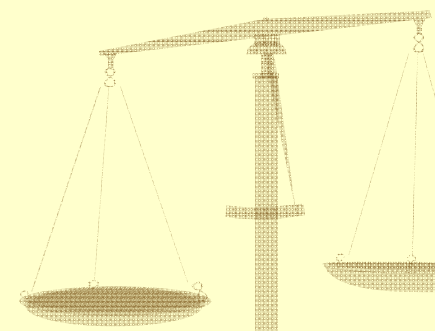
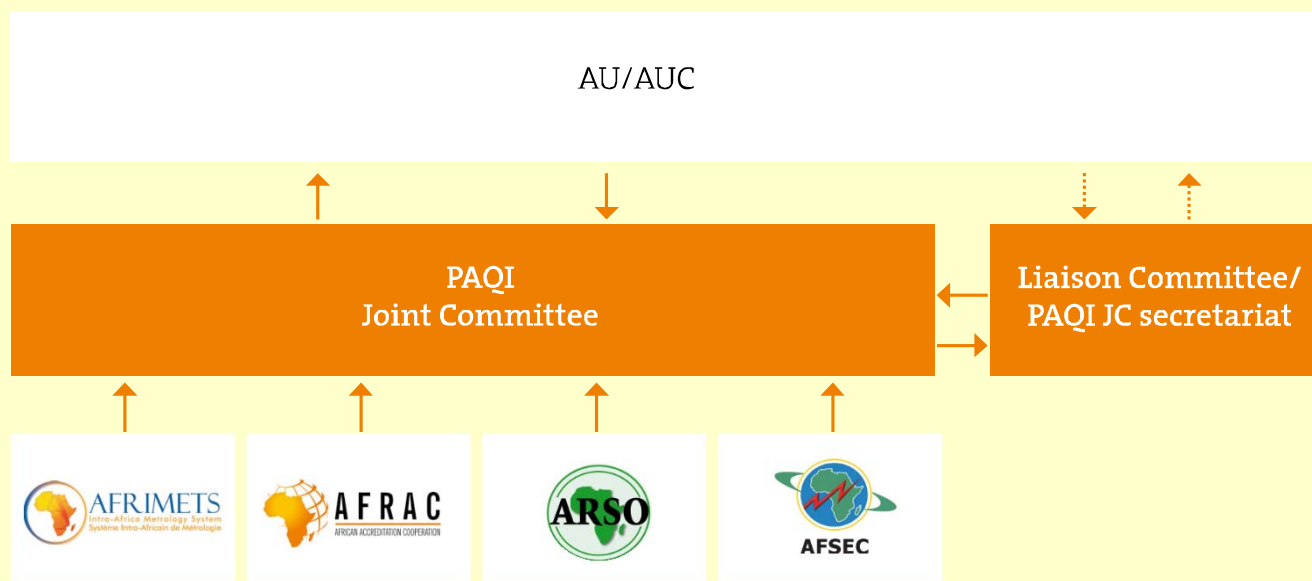
## Signatories of PAQI MoU



# International PAQI Infrastructure



# Integrated PAQI structure





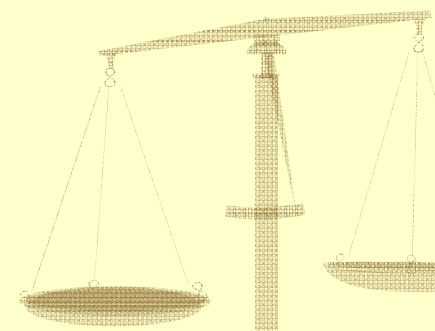
## CAMI (AU/AUC) DECLARATION

*On Quality, Standards and Metrology:*

**Encourage** country membership and participation in the African Regional Standardization Organization (ARSO) and its activities.

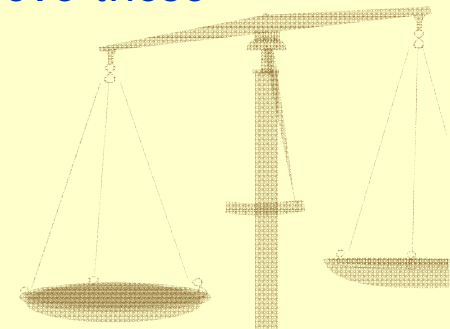
**Recognize** the Pan African Quality Infrastructure (PAQI) as the continental platform for all matters related to standardization, metrology, accreditation and conformity assessment in order to strengthen the competitiveness of Africa's goods and services and contribute towards the industrialization of the continent and its sustainability;

**Request** PAQI to provide regular reports to the AU Commission for monitoring and coordination



# Meeting AFRIMETS & PTB (Technical Cooperation)

- To support the TC on Quality Systems (TC-QS): Prof. Michael Kühne will be available for consultancy in order to accompany the development of the QS and relevant documents related to in order to help AFRIMETS for carrying out peer review of NMIs (TC-QS meeting and CMC Workshop as results) ;
- To provide technical support to TC Mass and related quantities (TC-M) which is a crucial committee for the African continent and important not only for industrial, but also legal metrology ;
- To facilitate the implementation of the MoU between EURAMET and AFRIMETS: a meeting was held between PTB, EURAMET secretariat and the AFRIMETS chairperson on 16th April 2013 with the aim to agree on common objectives that EURAMET and AFRIMETS want to reach in the next years and to define activities that can be supported in order to achieve these objectives.







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

# Request to EURAMET



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

Tunis, 6 May 2013

To: Dr ~~Kamel Hossain~~

CC: Dr Wolfgang ~~Schmidt~~

EURAMET Chairperson

Head of EURAMET Secretariat

Subject: Request for technical support.

Attached: Action plan.

Dear Mr ~~Hossain~~,

In the light of the existing ~~MOU~~ between AFRIMETS and EURAMET signed in September 2010 in ~~Sharm el Sheikh~~, Egypt, the AFRIMETS Chairperson on behalf of AFRIMETS kindly requests to foster cooperation between the two Regional Metrology Organisations.

The joint efforts should aim at strengthening the technical capabilities of AFRIMETS in particular its Technical Committees. From an AFRIMETS point of view the strengthening of the Technical Committee for Quality System (TC-QS) and the Technical Committee for Mass and related quantities (TC-M) is given the highest priority.

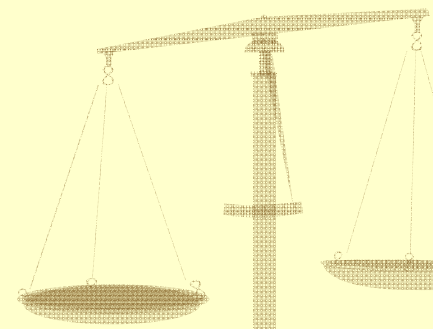
One of the primary goals of AFRIMETS is to have a ~~fully~~ operational TC-QS in order to run peer reviews and related activities such as quality evaluation reports and the evaluation of CMCs. Therefore, AFRIMETS requests the assistance of EURAMET to improve its TC-QS rules of procedure and overall to learn from EURAMET TC-QS.

It is the medium term objective of AFRIMETS to run all peer reviews and related activities on its own. In order to reach this objective, AFRIMETS proposes vice-versa participation in each other TC-QS meetings and especially assistance with peer reviews in general and in particular in French speaking countries.

Concerning TC-Mass and Related Quantities, EURAMET is kindly requested to assist with training key personnel from especially the French speaking countries in AFRIMETS of how to conduct pilot studies and comparisons. Additionally the participation in EURAMET TC-M meetings would be highly appreciated.

In the field of technical capacity building, tailor made trainings and further education should be considered by EURAMET taking into account the high demand of NMI staff members in Africa.

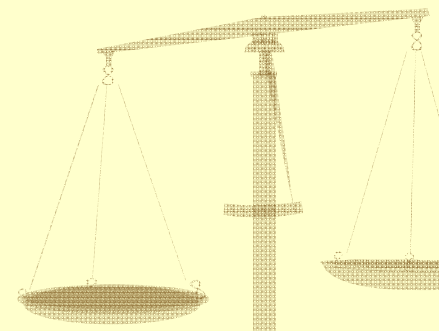
In the field of administrative capacity building, it is desirable if the EURAMET secretariat is willing to share its experience with AFRIMETS secretariat.



## Request to EURAMET (Cont.)

### ACTION PLAN

- Coaching of AFRIMETS TC-M ;
- Organising workshops: To train the trainees in the field of metrology for technical issues, such as uncertainty, calibration, comparison... ;
- CMC peer review: To provide EURAMET experts for Tunisia CMC peer review requesting French speaking experts ;
- Assisting of AFRIMETS TC-QS ;
- Support of the Secretariat (Bench learning).





Thank you!!

